

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 503 Service Description: Serv/insp U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval YR Hours or 1 year maximum service

Scheduled Date: 11/17/2016 Scheduled Odometer: 373
Completed Date: 11/21/2016 Completed Odometer: 374

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

<u>Date</u>	<u>Resource</u>	<u>Subresource</u>	<u>Cost Type</u>	<u>Quantity</u>	<u>Cost Per Unit</u>	<u>O/H %</u>	<u>Extended Cost</u>
11/17/2016	SPEN0001	1HREG	Labour	1.50	37.10000	21.000%	\$67.34
11/18/2016	SPEN0001	1HREG	Labour	6.50	37.10000	21.000%	\$291.79
11/18/2016	A4720900551	TOWER	Materials	1.00	76.14000	0.000%	\$76.14
11/18/2016	3W0696	TOWER	Materials	1.00	17.24000	0.000%	\$17.24
11/21/2016	SPEN0001	1HREG	Labour	3.00	37.10000	21.000%	\$134.67
11/22/2016	35	WAREHOUSE	Materials	1.00	4.75000	0.000%	\$4.75

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 732

Service Description: Service and inspection

Asset:	U53004	GRAVEL TRUCK
Last Odometer Reading	255458	
Interval	YR	Hours or 1 year maximum service

Scheduled Date:	01/26/2017	Scheduled Odometer:	553
Completed Date:	01/31/2017	Completed Odometer:	553

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
01/26/2017	ROSE0001	1HREG	Labour	6.50	37.47000	21.000%	\$294.70
01/27/2017	ROSE0001	1HREG	Labour	5.00	37.47000	21.000%	\$226.69
01/26/2017	A4720900551	TOWER	Materials	1.00	76.14000	0.000%	\$76.14
01/26/2017	A4721800309	TOWER	Materials	1.00	38.65000	0.000%	\$38.65
01/26/2017	3W0696	TOWER	Materials	1.00	17.25000	0.000%	\$17.25
01/26/2017	1040	WAREHOUSE	Materials	36.00	6.01000	0.000%	\$216.36
01/31/2017	ROSE0001	1HREG	Labour	2.00	37.47000	21.000%	\$90.68

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 944 Service Description: CVIP U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval CVP CVIP - Alberta Transportation

Scheduled Date: 03/30/2017 Scheduled Odometer: 22048
Completed Date: 04/04/2017 Completed Odometer: 22050

Task: CVIP Commercial Vehicle Insp.

See attached link for Form Complete
<https://www.trans.gov.ab.ca/TravisWebLogin> Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
03/30/2017	SPEN0001	1HREG	Labour	3.00	37.47000	21.000%	\$136.02
03/31/2017	SPEN0001	1HREG	Labour	5.50	37.47000	21.000%	\$249.36
04/03/2017	SPEN0001	1HREG	Labour	1.00	37.47000	21.000%	\$45.34
04/04/2017	SPEN0001	1HREG	Labour	1.00	37.47000	21.000%	\$45.34

Work Order Charges:

Labour: \$476.06
Materials: \$0.00
Fuel: \$0.00
Other: \$0.00

TOTAL: \$476.06
=====

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1014 Service Description: Repair air leak

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 04/26/2017 Scheduled Odometer: 675
Completed Date: 04/26/2017 Completed Odometer: 675

Task:

Repair the air leak discovered at the scale Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
04/26/2017	ROSE0001	1HREG	Labour	5.50	37.47000	21.000%	\$249.36

Work Order Charges:

Labour: \$249.36
Materials: \$0.00
Fuel: \$0.00
Other: \$0.00
TOTAL: \$249.36

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 760

Service Description: Service and inspection

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

YR

Hours or 1 year maximum service

Scheduled Date: 06/14/2017

Scheduled Odometer:

788

Completed Date: 06/15/2017

Completed Odometer:

788

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
06/14/2017	SPEN0001	1HREG	Labour	1.50	37.47000	21.000%	\$68.01
06/14/2017	A4720900551	TOWER	Materials	1.00	76.14000	0.000%	\$76.14
06/14/2017	3W0696	TOWER	Materials	1.00	16.64000	0.000%	\$16.64
06/15/2017	SPEN0001	1HREG	Labour	6.50	37.47000	21.000%	\$294.70
06/15/2017	35	WAREHOUSE	Materials	1.00	4.61000	0.000%	\$4.61

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1211

Service Description: Service and inspection

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 09/14/2017 Scheduled Odometer: 975
 Completed Date: 09/15/2017 Completed Odometer: 975

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Complete
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
09/14/2017	HOLM0001	1HREG	Labour	4.00	37.47000	0.000%	\$149.88
09/14/2017	A4720900551	TOWER	Materials	1.00	76.14000	0.000%	\$76.14
09/14/2017	3W0696	TOWER	Materials	1.00	16.64000	0.000%	\$16.64
09/14/2017	35	WAREHOUSE	Materials	1.00	4.61000	0.000%	\$4.61
09/14/2017	P616400	WAREHOUSE	Materials	1.00	20.86000	0.000%	\$20.86
09/14/2017	P619498	WAREHOUSE	Materials	1.00	153.60000	0.000%	\$153.60
09/14/2017	P616400	WAREHOUSE	Materials	-1.00	20.86000	0.000%	-\$20.86
09/14/2017	P547520	WAREHOUSE	Materials	1.00	44.93000	0.000%	\$44.93

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1659

Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK

Last Odometer Reading 255458

Interval YR Hours or 1 year maximum service

Scheduled Date: 12/01/2017 Scheduled Odometer: 39798

Completed Date: 12/08/2017 Completed Odometer: 39789

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
12/01/2017	SPEN0001	1HREG	Labour	3.00	37.47000	21.000%	\$136.02
12/01/2017	A4720900551	TOWER	Materials	1.00	70.74000	0.000%	\$70.74
12/01/2017	3W0696	TOWER	Materials	1.00	16.66000	0.000%	\$16.66
12/01/2017	A4721800309	TOWER	Materials	1.00	38.65000	0.000%	\$38.65
12/01/2017	A4720900551	TOWER	Materials	1.00	70.74000	0.000%	\$70.74
12/01/2017	2721	TOWER	Materials	5.00	0.14000	0.000%	\$0.70
12/01/2017	16FFP75	TOWER	Materials	2.00	58.90000	0.000%	\$117.80
12/01/2017	16FFS75	TOWER	Materials	2.00	121.95000	0.000%	\$243.90

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1756

Service Description: Hyd hose leakng

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 01/12/2018 Scheduled Odometer: 1242
Completed Date: 01/12/2018 Completed Odometer: 1242

Task:

Replace leaking hyd hose

Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
01/12/2018	ROSE0001	1HREG	Labour	3.50	37.92000	21.000%	\$160.59
01/12/2018	HAR20	WAREHOUSE	Materials	1.00	100.99000	0.000%	\$100.99
01/12/2018	208 8FJX8FJ	UNIT PARTS	Materials	1.00	111.58000	0.000%	\$111.58

Work Order Charges:

Labour: \$160.59
Materials: \$212.57
Fuel: \$0.00
Other: \$0.00

TOTAL: \$373.16

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1719 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval YR Hours or 1 year maximum service

Scheduled Date: 02/21/2018 Scheduled Odometer: 1405
Completed Date: 02/23/2018 Completed Odometer: 1405

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
02/21/2018	ROSE0001	1HREG	Labour	1.50	37.92000	21.000%	\$68.82
02/22/2018	A4720900551	TOWER	Materials	1.00	72.58000	0.000%	\$72.58
02/22/2018	3W0696	TOWER	Materials	1.00	16.61000	0.000%	\$16.61
02/22/2018	ROSE0001	1HREG	Labour	1.00	37.92000	21.000%	\$45.88
02/23/2018	MARFAK AP	WAREHOUSE	Materials	1.00	3.34000	0.000%	\$3.34
02/23/2018	ROSE0001	1HREG	Labour	6.50	37.92000	21.000%	\$298.24

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2056 Service Description: Repair A/C

Asset: U53004 GRAVEL TRUCK

Last Odometer Reading 255458
Interval

Scheduled Date: 05/15/2018 Scheduled Odometer: 1537
Completed Date: 05/15/2018 Completed Odometer: 1537

Task:

Repair A/C Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
05/15/2018	HOLM0001	1HREG	Labour	1.50	37.92000	21.000%	\$68.82

Work Order Charges:

Labour:	\$68.82
Materials:	\$0.00
Fuel:	\$0.00
Other:	\$0.00
TOTAL:	----- \$68.82 =====

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 1867 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 07/05/2018 Scheduled Odometer: 1606
 Completed Date: 07/09/2018 Completed Odometer: 1606

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
07/05/2018	HOLM0001	1HREG	Labour	3.00	37.92000	21.000%	\$137.65
07/05/2018	A4720900551	TOWER	Materials	1.00	85.20000	0.000%	\$85.20
07/05/2018	3W0696	TOWER	Materials	1.00	5.94000	0.000%	\$5.94
07/05/2018	11402	TOWER	Materials	1.00	10.70000	0.000%	\$10.70
07/05/2018	35	WAREHOUSE	Materials	1.00	3.79000	0.000%	\$3.79
07/06/2018	HOLM0001	1HREG	Labour	1.50	37.92000	21.000%	\$68.82
07/09/2018	HOLM0001	1HREG	Labour	4.00	37.92000	21.000%	\$183.53

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2268

Service Description: Serv/Insp

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

YR

Hours or 1 year maximum service

Scheduled Date: 11/07/2018

Scheduled Odometer:

1812

Completed Date: 11/08/2018

Completed Odometer:

1812

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
11/07/2018	3W0696	TOWER	Materials	1.00	11.29000	0.000%	\$11.29
11/07/2018	HOLM0001	1HREG	Labour	5.50	37.92000	21.000%	\$252.36
11/07/2018	35	WAREHOUSE	Materials	2.00	3.99000	0.000%	\$7.98
11/07/2018	1040	WAREHOUSE	Materials	36.00	6.18000	0.000%	\$222.48
11/08/2018	HOLM0001	1HREG	Labour	5.50	37.92000	21.000%	\$252.36
11/08/2018	2312337008	TOWER	Materials	2.00	1.35000	0.000%	\$2.70

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2588

Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK

Last Odometer Reading 255458

Interval YR Hours or 1 year maximum service

Scheduled Date: 02/06/2019 Scheduled Odometer: 2019

Completed Date: 02/07/2019 Completed Odometer: 2019

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Complete
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
02/06/2019	HOLM0001	1HREG	Labour	2.00	38.78000	21.000%	\$93.85
02/07/2019	HOLM0001	1HREG	Labour	6.00	38.78000	21.000%	\$281.54
02/06/2019	14-17927-000	TOWER	Materials	1.00	14.96000	0.000%	\$14.96
02/06/2019	ATF	WAREHOUSE	Materials	4.00	6.59000	0.000%	\$26.36
02/06/2019	ATF	WAREHOUSE	Materials	1.00	6.59000	0.000%	\$6.59
02/07/2019	HF28943	TOWER	Materials	0.00	87.45000	0.000%	\$0.00
02/07/2019	R928017552	TOWER	Materials	1.00	120.00000	0.000%	\$120.00
02/07/2019	932630Q	TOWER	Materials	1.00	134.21000	0.000%	\$134.21

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2014

Service Description: CVIP U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval CVP CVIP - Alberta Transportation

Scheduled Date: 04/02/2019 Scheduled Odometer: 75822
Completed Date: 04/10/2019 Completed Odometer: 75822

Task: CVIP Commercial Vehicle Insp.

See attached link for Form
<https://www.trans.gov.ab.ca/TravisWebLogin>

Complete
Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
04/02/2019	ROSE0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92
04/03/2019	ROSE0001	1HREG	Labour	8.00	38.78000	21.000%	\$375.39
04/04/2019	ROSE0001	1HREG	Labour	6.00	38.78000	21.000%	\$281.54
04/09/2019	SPEN0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92
04/10/2019	ROSE0001	1HREG	Labour	2.00	38.78000	21.000%	\$93.85

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2014 Service Description: CVIP U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval CVP CVIP - Alberta Transportation

Scheduled Date: 04/02/2019 Scheduled Odometer: 75822
Completed Date: 04/10/2019 Completed Odometer: 75822

Task: CVIP Commercial Vehicle Insp.

See attached link for Form Complete
<https://www.trans.gov.ab.ca/TravisWebLogin> Complete

COMMENTS

<u>Date</u>	<u>Resource</u>	<u>Subresource</u>	<u>Cost Type</u>	<u>Quantity</u>	<u>Cost Per Unit</u>	<u>O/H %</u>	<u>Extended Cost</u>
04/02/2019	ROSE0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92
04/03/2019	ROSE0001	1HREG	Labour	8.00	38.78000	21.000%	\$375.39
04/04/2019	ROSE0001	1HREG	Labour	6.00	38.78000	21.000%	\$281.54
04/09/2019	SPEN0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92
04/10/2019	ROSE0001	1HREG	Labour	2.00	38.78000	21.000%	\$93.85

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 3232 Service Description: Brake pot

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 08/01/2019 Scheduled Odometer: 75960
Completed Date: 08/26/2019 Completed Odometer: 75960

Task:

Check brake pots Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
08/01/2019	SPEN0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92

Work Order Charges:

Labour:	\$46.92
Materials:	\$0.00
Fuel:	\$0.00
Other:	\$0.00
TOTAL:	=====
	\$46.92
	=====

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2804 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 10/17/2019 Scheduled Odometer: 2244
 Completed Date: 10/21/2019 Completed Odometer: 2244

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
10/18/2019	SPEN0001	1HREG	Labour	6.00	38.78000	21.000%	\$281.54
10/18/2019	3W0696	TOWER	Materials	1.00	22.05000	0.000%	\$22.05
10/18/2019	3W0696	TOWER	Materials	0.00	22.05000	0.000%	\$0.00
10/18/2019	A4720900551	WAREHOUSE	Materials	1.00	82.63000	0.000%	\$82.63
10/18/2019	P547520	WAREHOUSE	Materials	1.00	51.17000	0.000%	\$51.17
10/18/2019	06806SA	WAREHOUSE	Materials	4.00	0.18000	0.000%	\$0.72
10/18/2019	825502	WAREHOUSE	Materials	4.00	0.39000	0.000%	\$1.56
10/21/2019	SPEN0001	1HREG	Labour	1.00	38.78000	21.000%	\$46.92

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 3391 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 02/05/2020 Scheduled Odometer: 90172
 Completed Date: 02/06/2020 Completed Odometer: 90172

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
02/05/2020	SPEN0001	1HREG	Labour	5.00	38.78000	21.000%	\$234.62
02/06/2020	SPEN0001	1HREG	Labour	4.00	38.78000	21.000%	\$187.70
02/05/2020	1040	WAREHOUSE	Materials	36.00	5.80000	0.000%	\$208.80
02/05/2020	A4720900551	WAREHOUSE	Materials	1.00	85.81000	0.000%	\$85.81
02/05/2020	A4721800309	WAREHOUSE	Materials	1.00	38.03000	0.000%	\$38.03
02/06/2020	RD-3-8821-0	WAREHOUSE	Materials	1.00	105.13000	0.000%	\$105.13
02/06/2020	A0661624010	TOWER	Materials	1.00	138.05000	0.000%	\$138.05

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 2958

Service Description: CVIP U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval CVP CVIP - Alberta Transportation

Scheduled Date: 04/02/2020 Scheduled Odometer: 93476
Completed Date: 04/03/2020 Completed Odometer: 93476

Task: CVIP Commercial Vehicle Insp.

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<https://www.trans.gov.ab.ca/TravisWebLogin> Complete

COMMENTS

<u>Date</u>	<u>Resource</u>	<u>Subresource</u>	<u>Cost Type</u>	<u>Quantity</u>	<u>Cost Per Unit</u>	<u>O/H %</u>	<u>Extended Cost</u>
04/02/2020	SPEN0001	1HREG	Labour	2.00	38.78000	21.000%	\$93.85
04/03/2020	SPEN0001	1HREG	Labour	6.50	38.78000	21.000%	\$305.00
04/03/2020	60101	TOWER	Materials	1.00	3.89000	0.000%	\$3.89

Work Order Charges:

Labour: \$398.85
Materials: \$3.89
Fuel: \$0.00
Other: \$0.00

TOTAL: \$402.74

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 3688 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 05/27/2020 Scheduled Odometer: 2661
 Completed Date: 06/02/2020 Completed Odometer: 2661

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
05/27/2020	HOLM0001	1HREG	Labour	2.50	39.53000	21.000%	\$119.58
05/28/2020	HOLM0001	1HREG	Labour	6.00	39.53000	21.000%	\$286.99
05/27/2020	35	WAREHOUSE	Materials	1.00	3.20000	0.000%	\$3.20
05/27/2020	60101	TOWER	Materials	1.00	3.89000	0.000%	\$3.89
05/28/2020	RD-3-8821-0	WAREHOUSE	Materials	1.00	102.30000	0.000%	\$102.30
06/02/2020	6054	TOWER	Materials	1.00	16.16000	0.000%	\$16.16
06/02/2020	3W0696	TOWER	Materials	1.00	25.00000	0.000%	\$25.00

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 3949 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 07/08/2020 Scheduled Odometer: 2840
 Completed Date: 07/13/2020 Completed Odometer: 2840

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Complete
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
07/08/2020	HOLM0001	1HREG	Labour	1.00	39.53000	21.000%	\$47.83
07/09/2020	SPEN0001	1HREG	Labour	6.00	39.53000	21.000%	\$286.99
07/09/2020	HOLM0001	1HREG	Labour	2.00	39.53000	21.000%	\$95.66
07/09/2020	RD-3-8821-0	WAREHOUSE	Materials	1.00	102.30000	0.000%	\$102.30
07/09/2020	4411-1	TOWER	Materials	1.00	8.00000	0.000%	\$8.00
07/13/2020	SPEN0001	1HREG	Labour	1.00	39.53000	21.000%	\$47.83
07/13/2020	1012845	WAREHOUSE	Materials	3.00	5.04000	0.000%	\$15.12
07/16/2020	A4720900551	WAREHOUSE	Materials	1.00	94.51000	0.000%	\$94.51

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4074

Service Description: Serv/Insp

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

YR

Hours or 1 year maximum service

Scheduled Date: 08/27/2020

Scheduled Odometer:

3054

Completed Date: 09/01/2020

Completed Odometer:

3054

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
08/27/2020	SPEN0001	1HREG	Labour	0.50	39.53000	21.000%	\$23.92
08/28/2020	SPEN0001	1HREG	Labour	2.00	39.53000	21.000%	\$95.66
08/28/2020	3W0696	TOWER	Materials	1.00	25.00000	0.000%	\$25.00
08/28/2020	1040	WAREHOUSE	Materials	30.00	5.66000	0.000%	\$169.80
08/28/2020	P552518	WAREHOUSE	Materials	1.00	7.45000	0.000%	\$7.45
08/28/2020	HF28943	WAREHOUSE	Materials	1.00	109.50000	0.000%	\$109.50
08/28/2020	A4721800309	WAREHOUSE	Materials	1.00	40.38000	0.000%	\$40.38
08/28/2020	A4720900551	WAREHOUSE	Materials	1.00	94.51000	0.000%	\$94.51

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4195

Service Description: Serv/Insp

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

YR

Hours or 1 year maximum service

Scheduled Date: 11/16/2020

Scheduled Odometer:

3339

Completed Date: 11/23/2020

Completed Odometer:

3339

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
11/16/2020	HOLM0001	1HREG	Labour	0.50	39.53000	21.000%	\$23.92
11/18/2020	SPEN0001	1HREG	Labour	5.00	39.53000	21.000%	\$239.16
11/16/2020	A4720900551	WAREHOUSE	Materials	1.00	93.99000	0.000%	\$93.99
11/16/2020	3W0696	TOWER	Materials	1.00	24.47000	0.000%	\$24.47
11/18/2020	4100810	WAREHOUSE	Materials	1.00	54.71000	0.000%	\$54.71
11/18/2020	35	WAREHOUSE	Materials	1.00	3.04000	0.000%	\$3.04
11/18/2020	RD-3-8821-0	WAREHOUSE	Materials	1.00	105.90000	0.000%	\$105.90
11/18/2020	2312337008	TOWER	Materials	2.00	1.42000	0.000%	\$2.84

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4661

Service Description: Repair hyd oil leak

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

Scheduled Date: 03/26/2021

Scheduled Odometer: 3410

Completed Date: 03/26/2021

Completed Odometer: 3410

Task:

Repair hyd oil leak

Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
03/26/2021	16FFS75	TOWER	Materials	1.00	120.90000	0.000%	\$120.90
03/26/2021	16FFP75	TOWER	Materials	1.00	59.49000	0.000%	\$59.49
03/26/2021	HAR20	WAREHOUSE	Materials	1.00	95.72000	0.000%	\$95.72
03/26/2021	HOLM0001	1HREG	Labour	2.00	39.53000	21.000%	\$95.66

Work Order Charges:

Labour: \$95.66
 Materials: \$276.11
 Fuel: \$0.00
 Other: \$0.00

TOTAL: \$371.77

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 3815 Service Description: CVIP U53004

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval CVP CVIP - Alberta Transportation

Scheduled Date: 03/31/2021 Scheduled Odometer: 143191
Completed Date: 04/09/2021 Completed Odometer: 143191

Task: CVIP Commercial Vehicle Insp.

See attached link for Form Complete
<https://www.trans.gov.ab.ca/TravisWebLogin> Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
03/31/2021	SPEN0001	1HREG	Labour	1.00	39.53000	21.000%	\$47.83
04/01/2021	SPEN0001	1HREG	Labour	3.50	39.53000	21.000%	\$167.41
04/09/2021	SPEN0001	1HREG	Labour	6.00	39.53000	21.000%	\$286.99

Work Order Charges:

Labour: \$502.23
Materials: \$0.00
Fuel: \$0.00
Other: \$0.00

TOTAL: \$502.23

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4387 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 03/31/2021 Scheduled Odometer: 3424
 Completed Date: 04/12/2021 Completed Odometer: 3424

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
03/31/2021	SPEN0001	1HREG	Labour	1.00	39.53000	21.000%	\$47.83
04/01/2021	SPEN0001	1HREG	Labour	2.00	39.53000	21.000%	\$95.66
04/12/2021	SPEN0001	1HREG	Labour	6.00	39.53000	21.000%	\$286.99
04/12/2021	A4720900551	WAREHOUSE	Materials	1.00	92.50000	0.000%	\$92.50
04/12/2021	RD-3-8821-0	WAREHOUSE	Materials	1.00	101.59000	0.000%	\$101.59
04/12/2021	3W0696	TOWER	Materials	1.00	24.92000	0.000%	\$24.92

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4720

Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK

Last Odometer Reading 255458

Interval YR Hours or 1 year maximum service

Scheduled Date: 05/26/2021 Scheduled Odometer: 3590

Completed Date: 05/26/2021 Completed Odometer: 3590

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
05/26/2021	HOLM0001	1HREG	Labour	7.50	40.04000	21.000%	\$363.36
05/26/2021	WPR BLD WNTR 2	WAREHOUSE	Materials	2.00	7.52000	0.000%	\$15.04
05/26/2021	RD-3-8821-0	WAREHOUSE	Materials	1.00	101.59000	0.000%	\$101.59
05/26/2021	MARFAK AP	WAREHOUSE	Materials	1.00	4.54000	0.000%	\$4.54
05/26/2021	1040	WAREHOUSE	Materials	36.00	5.83000	0.000%	\$209.88
05/26/2021	A4721800309	WAREHOUSE	Materials	1.00	38.65000	0.000%	\$38.65
05/26/2021	A4720900551	WAREHOUSE	Materials	1.00	88.66000	0.000%	\$88.66

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4829 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval YR Hours or 1 year maximum service

Scheduled Date: 06/23/2021 Scheduled Odometer: 3758
Completed Date: 06/23/2021 Completed Odometer: 3758

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
06/23/2021	HOLM0001	1HREG	Labour	5.00	40.04000	21.000%	\$242.24
06/23/2021	A4720900551	WAREHOUSE	Materials	1.00	86.74000	0.000%	\$86.74
06/23/2021	3W0696	TOWER	Materials	1.00	24.92000	0.000%	\$24.92
06/23/2021	35	WAREHOUSE	Materials	1.00	3.00000	0.000%	\$3.00
06/23/2021	RD-3-8821-0	WAREHOUSE	Materials	1.00	98.64000	0.000%	\$98.64
06/23/2021	MARFAK AP	WAREHOUSE	Materials	1.00	4.54000	0.000%	\$4.54

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4990 Service Description: Replace u-joint

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 08/04/2021 Scheduled Odometer: 3961
Completed Date: 08/06/2021 Completed Odometer: 3961

Task:

Replace u-joint Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
08/04/2021	HOLM0001	1HREG	Labour	2.00	40.04000	21.000%	\$96.90
08/06/2021	HOLM0001	1HREG	Labour	2.00	40.04000	21.000%	\$96.90
08/06/2021	MARFAK AP	WAREHOUSE	Materials	1.00	4.54000	0.000%	\$4.54

Work Order Charges:

Labour: \$193.80
Materials: \$4.54
Fuel: \$0.00
Other: \$0.00

TOTAL: \$198.34

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4917 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 08/19/2021 Scheduled Odometer: 4018
 Completed Date: 08/19/2021 Completed Odometer: 4018

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
08/19/2021	RD-3-8821-0	WAREHOUSE	Materials	1.00	91.35000	0.000%	\$91.35
08/19/2021	A4720900551	WAREHOUSE	Materials	1.00	84.93000	0.000%	\$84.93
08/19/2021	SPEN0001	1HREG	Labour	5.00	40.04000	21.000%	\$242.24

Work Order Charges:

Labour:	\$242.24
Materials:	\$176.28
Fuel:	\$0.00
Other:	\$0.00

TOTAL:	===== \$418.52 =====
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Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5069 Service Description: Fan relay

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 09/17/2021 Scheduled Odometer: 4141
Completed Date: 09/17/2021 Completed Odometer: 0

Task:

Replace fan relay Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
09/17/2021	SPEN0001	1HREG	Labour	0.50	40.04000	21.000%	\$24.22

Work Order Charges:

Labour:	\$24.22
Materials:	\$0.00
Fuel:	\$0.00
Other:	\$0.00
TOTAL:	=====
	\$24.22
	=====

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5014 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 09/29/2021 Scheduled Odometer: 4195
 Completed Date: 09/29/2021 Completed Odometer: 4195

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
09/29/2021	A4720900551	WAREHOUSE	Materials	1.00	84.63000	0.000%	\$84.63
09/29/2021	3W0696	TOWER	Materials	1.00	24.92000	0.000%	\$24.92
09/29/2021	A4721800309	WAREHOUSE	Materials	1.00	36.63000	0.000%	\$36.63
09/29/2021	HOLM0001	1HREG	Labour	6.00	40.04000	21.000%	\$290.69
09/29/2021	35	WAREHOUSE	Materials	1.00	3.00000	0.000%	\$3.00
09/29/2021	P547520	WAREHOUSE	Materials	1.00	63.73000	0.000%	\$63.73
09/29/2021	P619498	WAREHOUSE	Materials	1.00	157.07000	0.000%	\$157.07

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5099 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 01/06/2022 Scheduled Odometer: 4423
 Completed Date: 01/07/2022 Completed Odometer: 4423

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
12/04/2021	6054	TOWER	Materials	1.00	13.64000	0.000%	\$13.64
01/06/2022	HOLM0001	1HREG	Labour	5.00	40.89000	21.000%	\$247.38
01/07/2022	HOLM0001	1HREG	Labour	0.50	40.89000	21.000%	\$24.74
01/06/2022	SPEN0001	1HREG	Labour	1.00	40.89000	21.000%	\$49.48

Work Order Charges:

Labour:	\$321.60
Materials:	\$13.64
Fuel:	\$0.00
Other:	\$0.00

TOTAL:	\$335.24
=====	

Date: 02/13/2023

User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 4708

Service Description: CVIP U53004

Asset: U53004

GRAVEL TRUCK

Last Odometer Reading

255458

Interval

CVP

CVIP - Alberta Transportation

Scheduled Date: 04/08/2022

Scheduled Odometer: 202545

Completed Date: 04/19/2022

Completed Odometer: 202545

Task: CVIP Commercial Vehicle Insp.

See attached link for Form

Complete

<https://www.trans.gov.ab.ca/TravisWebLogin>

Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
04/08/2022	HOLM0001	1HREG	Labour	7.00	40.89000	21.000%	\$346.34
04/11/2022	HOLM0001	1HREG	Labour	8.00	40.89000	21.000%	\$395.82
04/12/2022	HOLM0001	1HREG	Labour	8.00	40.89000	21.000%	\$395.82
04/13/2022	HOLM0001	1HREG	Labour	3.00	40.89000	21.000%	\$148.43
04/14/2022	HOLM0001	1HREG	Labour	3.00	40.89000	21.000%	\$148.43
04/19/2022	HOLM0001	1HREG	Labour	1.00	40.89000	21.000%	\$49.48
04/11/2022	6054	TOWER	Materials	1.00	10.89000	0.000%	\$10.89
04/11/2022	60101	TOWER	Materials	1.00	3.93000	0.000%	\$3.93

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5300 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 04/14/2022 Scheduled Odometer: 4582
 Completed Date: 04/19/2022 Completed Odometer: 4582

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
04/14/2022	HOLM0001	1HREG	Labour	4.00	40.89000	21.000%	\$197.91
04/19/2022	HOLM0001	1HREG	Labour	1.00	40.89000	21.000%	\$49.48
04/14/2022	A4720900551	WAREHOUSE	Materials	1.00	89.13000	0.000%	\$89.13
04/14/2022	3W0696	TOWER	Materials	1.00	25.00000	0.000%	\$25.00

Work Order Charges:

Labour:	\$247.39
Materials:	\$114.13
Fuel:	\$0.00
Other:	\$0.00

TOTAL:	\$361.52
=====	

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5496 Service Description: Repalce water pump

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 05/16/2022 Scheduled Odometer: 4639
Completed Date: 05/16/2022 Completed Odometer: 4639

Task:

Replace water pump Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
05/16/2022	HOLM0001	1HREG	Labour	4.00	40.89000	21.000%	\$197.91
05/16/2022	1012845	WAREHOUSE	Materials	22.00	5.44000	0.000%	\$119.68

Work Order Charges:

Labour: \$197.91
Materials: \$119.68
Fuel: \$0.00
Other: \$0.00
TOTAL: \$317.59

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5462 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 06/07/2022 Scheduled Odometer: 4760
 Completed Date: 06/10/2022 Completed Odometer: 4760

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
06/08/2022	HOLM0001	1HREG	Labour	6.00	40.89000	21.000%	\$296.86
06/09/2022	HOLM0001	1HREG	Labour	3.00	40.89000	21.000%	\$148.43
06/10/2022	HOLM0001	1HREG	Labour	5.00	40.89000	21.000%	\$247.38
06/07/2022	A4721800309	WAREHOUSE	Materials	1.00	31.97000	0.000%	\$31.97
06/07/2022	A4720900551	WAREHOUSE	Materials	1.00	82.89000	0.000%	\$82.89
06/07/2022	3W0696	TOWER	Materials	1.00	25.00000	0.000%	\$25.00
06/08/2022	1040	WAREHOUSE	Materials	36.00	5.78000	0.000%	\$208.08
06/08/2022	RD-3-8821-0	WAREHOUSE	Materials	2.00	37.15000	0.000%	\$74.30

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5572 Service Description: Replace brake pot

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 06/30/2022 Scheduled Odometer: 4880
Completed Date: 06/30/2022 Completed Odometer: 4880

Task:

Replace brake pot Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
06/30/2022	SPEN0001	1HREG	Labour	1.50	40.89000	21.000%	\$74.22
06/30/2022	3030	TOWER	Materials	1.00	48.97000	0.000%	\$48.97

Work Order Charges:

Labour: \$74.22
Materials: \$48.97
Fuel: \$0.00
Other: \$0.00

TOTAL: \$123.19

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5553 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 07/19/2022 Scheduled Odometer: 4968
 Completed Date: 07/19/2022 Completed Odometer: 4968

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
07/05/2022	FH12AWP	TOWER	Materials	1.00	5.46000	0.000%	\$5.46
07/19/2022	HOLM0001	1HREG	Labour	5.00	40.89000	21.000%	\$247.38
07/19/2022	A4720900551	WAREHOUSE	Materials	1.00	86.13000	0.000%	\$86.13
07/19/2022	1012845	WAREHOUSE	Materials	4.00	5.44000	0.000%	\$21.76

Work Order Charges:

Labour:	\$247.38
Materials:	\$113.35
Fuel:	\$0.00
Other:	\$0.00

TOTAL:	\$360.73
=====	

Date: 02/13/2023
User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5642 Service Description: Check coolant leak

Asset: U53004 GRAVEL TRUCK
Last Odometer Reading 255458
Interval

Scheduled Date: 08/08/2022 Scheduled Odometer: 5045
Completed Date: 08/10/2022 Completed Odometer: 5045

Task:

Check coolant leak Complete
Cracked fender mount Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
08/08/2022	SPEN0001	1HREG	Labour	1.00	40.89000	21.000%	\$49.48
08/09/2022	SPEN0001	1HREG	Labour	2.00	40.89000	21.000%	\$98.95
08/10/2022	SPEN0001	1HREG	Labour	1.00	40.89000	21.000%	\$49.48
08/10/2022	1012845	WAREHOUSE	Materials	8.00	5.44000	0.000%	\$43.52

Work Order Charges:

Labour: \$197.91
Materials: \$43.52
Fuel: \$0.00
Other: \$0.00

TOTAL: \$241.43

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5655 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 09/01/2022 Scheduled Odometer: 5159
 Completed Date: 09/01/2022 Completed Odometer: 5159

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
09/01/2022	SPEN0001	1HREG	Labour	7.00	40.89000	21.000%	\$346.34
09/01/2022	A4720900551	WAREHOUSE	Materials	1.00	86.87000	0.000%	\$86.87
09/01/2022	3W0696	TOWER	Materials	1.00	25.99000	0.000%	\$25.99
09/01/2022	RD-3-8821-0	WAREHOUSE	Materials	1.00	35.96000	0.000%	\$35.96

Work Order Charges:

Labour:	\$346.34
Materials:	\$148.82
Fuel:	\$0.00
Other:	\$0.00

TOTAL:	\$495.16
=====	

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5106 Service Description: Service/Inspection

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 10/13/2022 Scheduled Odometer: 5416
 Completed Date: 10/13/2022 Completed Odometer: 5416

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Complete
Engine oil Filter change every 600 hrs	Complete
Engine Breather clean or replace every 2 yrs	Complete
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
10/13/2022	SPEN0001	1HREG	Labour	6.00	40.89000	21.000%	\$296.86
10/13/2022	1040	WAREHOUSE	Materials	36.00	5.78000	0.000%	\$208.08
10/13/2022	A4721800309	WAREHOUSE	Materials	1.00	32.24000	0.000%	\$32.24
10/13/2022	A4720900551	WAREHOUSE	Materials	1.00	92.68000	0.000%	\$92.68
10/13/2022	3W0696	TOWER	Materials	1.00	25.99000	0.000%	\$25.99

Date: 02/13/2023
 User: Trevor

Cypress County ASSET WORK ORDER

Work Order No: 5762 Service Description: Serv/Insp

Asset: U53004 GRAVEL TRUCK
 Last Odometer Reading 255458
 Interval YR Hours or 1 year maximum service

Scheduled Date: 12/16/2022 Scheduled Odometer: 5607
 Completed Date: 12/23/2022 Completed Odometer: 5607

Task: MHDTK Medium/Heavy Duty Truck

CHECKLIST IN CONJUNCTION W/ MFG'S SERVICE MANI	Complete
Engine oil sample every 200 hrs	Complete
Coolant Level 1 sample every 2 years or 2000 hrs	Not Required
Engine oil change every 600 hrs	Not Required
Engine oil Filter change every 600 hrs	Not Required
Engine Breather clean or replace every 2 yrs	Not Required
Fuel Filter(s) change every 200 hrs	Complete
Fuel / Water Separator change every service	Complete

COMMENTS

Date	Resource	Subresource	Cost Type	Quantity	Cost Per Unit	O/H %	Extended Cost
12/16/2022	HOLM0001	1HREG	Labour	7.00	40.89000	21.000%	\$346.34
12/19/2022	HOLM0001	1HREG	Labour	7.00	40.89000	21.000%	\$346.34
12/19/2022	27101-CTPPL	WAREHOUSE	Materials	1.00	348.44000	0.000%	\$348.44
12/16/2022	3W0696	TOWER	Materials	1.00	25.99000	0.000%	\$25.99
12/16/2022	PHE07398	TOWER	Materials	2.00	2.00000	0.000%	\$4.00
12/16/2022	PHE07398	TOWER	Materials	1.00	2.00000	0.000%	\$2.00
12/16/2022	RD-3-8821-0	WAREHOUSE	Materials	1.00	35.46000	0.000%	\$35.46
12/16/2022	MARFAK AP	WAREHOUSE	Materials	1.00	4.96000	0.000%	\$4.96

Invoice

HISTORICAL

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Invoice 000032653
Date 03/30/2020

Cypress County
816 2nd Avenue
Dunmore Alberta T1B 0K3

Vendor: DUNLOP WESTERN STAR TRUCK CENTRE LTD.
4110 9 AVENUE NORTH
LETHBRIDGE, AB T1H 6L9

Document Number	Purchase Order Number	Vendor ID	Shipping Method	Payment Terms ID
0302S302155		DUNL0002	PICKUP	Net 30
Description: DIFFERENTIAL REPAIR				Amount \$145.54

Subtotal	\$145.54
Misc	\$0.00
Tax	\$7.28
Freight	\$0.00
Trade Discount	\$0.00
Payment	\$0.00
Total Due	\$152.82

Invoice

HISTORICAL

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Invoice 000035222
Date 09/30/2020

Cypress County
816 2nd Avenue
Dunmore Alberta T1B 0K3

Vendor: HYDRACO INDUSTRIAL LTD.
PO BOX 895
MEDICINE HAT, AB T1A 7G8

Document Number	Purchase Order Number	Vendor ID	Shipping Method	Payment Terms ID	
34781		HYDR0001	PICKUP	Net 30	
Description: BRAKE & SUSPENSION UNIT REPAIR					Amount \$227.33

Subtotal	\$227.33
Misc	\$0.00
Tax	\$11.37
Freight	\$0.00
Trade Discount	\$0.00
Payment	\$0.00
Total Due	\$238.70

ENGINE

EQUIP NUM: U53004
WESTERN_ST 4900SB

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

N030-52291-0342
LABEL#: 200957470
SHOP JOB NUM : 5106
SAMPLE SHIP TIME (days) : 5
CYPRESS COUNTY
RECEIVED DATE: 18-Oct-22

No Action Required

Interp By: Greg Eyre
Interpreted On: 20-Oct-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
Sampled Date	13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
Sample Id	N030-52291-0342	N030-52250-0564	N030-52207-0463	N030-52167-0135
Lab Date	18-Oct-22	07-Sep-22	26-Jul-22	16-Jun-22
Meter [Hr]	5417	5159	4968	4760
Meter On Fluid	657	399	208	565
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	NULL	10W-40	10W-40	10W-40
Fluid Type	DURON UHP E6	DURON UHP	DURON UHP	DURON UHP
Fluid Change	Y	N	N	Y
Filter Change	Y	N	N	Y
Make Up Fluid []			0	0

CONDITION / CONTAMINATION

		13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	15.20	14.80	13.80	13.80
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	109.8	101.8	99.30	100.8
VISCOSITY INDEX					
VI	Viscosity Index	145	151	140	138

WEAR LEVELS / ADDITIVES

	13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	1	2	0	3
K	Potassium	8	6	3	18
Si	Silicon	13	9	10	16
Al	Aluminum	15	10	10	28
Fe	Iron	66	47	38	80
Cr	Chromium	4	3	2	6
Pb	Lead	0	0	0	0
Cu	Copper	8	5	5	9
Sn	Tin	1	0	0	0
Ni	Nickel	1	0	1	2
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1317	1196	1188	1313
Ca	Calcium	1215	1090	1101	1128
Mg	Magnesium	1042	1054	890	1064
Ba	Barium	0	0	0	0
B	Boron	1	3	1	0
Mo	Molybdenum	66	56	55	63
P	Phosphorus	1027	979	1008	1052

INFRARED (UFM)

		13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
ST	Soot	73	46	26	49
OXI	Oxidation	24	19	16	20
SUL	Sulfur Products	28	23	21	25
NIT	Nitration	13	10	8	11

ANTIFREEZE

		13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
A	Antifreeze	N	N	N	N

FUEL

		13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
F	Fuel	N	N	N	N

WATER

		13-Oct-22	01-Sep-22	19-Jul-22	10-Jun-22
W	Water	N	N	N	N

ENGINE

N030-52364-0250

LABEL#: 201081259

SHOP JOB NUM : 5762

SAMPLE SHIP TIME (days) : 11

CYPRESS COUNTY

RECEIVED DATE: 30-Dec-22

EQUIP NUM: U53004

WESTERN_ST 4900SB

No Action Required

SERIAL NUMBER: 0GLGS2011

COMP SERIAL NUM: 47192750332706

Interp By: Gregory Scribner

Interpreted On: 06-Jan-23

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
Sampled Date	19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
Sample Id	N030-52364-0250	N030-52291-0342	N030-52250-0564	N030-52207-0463
Lab Date	30-Dec-22	18-Oct-22	07-Sep-22	26-Jul-22
Meter [Hr]	5607	5417	5159	4968
Meter On Fluid	191	657	399	208
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	NULL	10W-40	10W-40
Fluid Type	DURON UHP E6	DURON UHP E6	DURON UHP	DURON UHP
Fluid Change	N	Y	N	N
Filter Change	N	Y	N	N
Make Up Fluid [l]	0			0

CONDITION / CONTAMINATION

		19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	15.30	15.20	14.80	13.80
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	104.5	109.8	101.8	99.30
VISCOSITY INDEX					
VI	Viscosity Index	154	145	151	140

WEAR LEVELS / ADDITIVES

	19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	2	1	2	0
K	Potassium	9	8	6	3
Si	Silicon	7	13	9	10
Al	Aluminum	11	15	10	10
Fe	Iron	33	66	47	38
Cr	Chromium	2	4	3	2
Pb	Lead	0	0	0	0
Cu	Copper	4	8	5	5
Sn	Tin	0	1	0	0
Ni	Nickel	1	1	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1178	1317	1196	1188
Ca	Calcium	1099	1215	1090	1101
Mg	Magnesium	956	1042	1054	890
Ba	Barium	0	0	0	0
B	Boron	2	1	3	1
Mo	Molybdenum	57	66	56	55
P	Phosphorus	977	1027	979	1008

INFRARED (UFM)

		19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
ST	Soot	28	73	46	26
OXI	Oxidation	17	24	19	16
SUL	Sulfur Products	21	28	23	21
NIT	Nitration	9	13	10	8

ANTIFREEZE

		19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
A	Antifreeze	N	N	N	N

FUEL

		19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
F	Fuel	N	N	N	N

WATER

		19-Dec-22	13-Oct-22	01-Sep-22	19-Jul-22
W	Water	N	N	N	N

ENGINE

EQUIP NUM: U53004

SERIAL NUMBER: 0GLGS2011

WESTERN_ST 4900SB

COMP SERIAL NUM: 47192750332706

No Action Required

Interp By: Greg Eyre

Interpreted On: 19-Jan-22

N030-52018-0229
 LABEL#: 200795940
 SHOP JOB NUM : 5099
 SAMPLE SHIP TIME (days) : 11
CYPRESS COUNTY
 RECEIVED DATE: 18-Jan-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	07-Jan-22	30-Sep-21	19-Aug-21	23-Jun-21
Sampled Date	07-Jan-22	30-Sep-21	19-Aug-21	23-Jun-21
Sample Id	N030-52018-0229	N030-51287-0563	N030-51236-0199	N030-51180-0371
Lab Date	18-Jan-22	14-Oct-21	24-Aug-21	29-Jun-21
Meter [Hr]	4423	4195	4018	3758
Meter On Fluid	228	177	428	168
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	N	Y	N	Y
Filter Change	N	Y	N	Y
Make Up Fluid []	0	0		0

PREVIOUS SAMPLE

SLIGHTLY ELEVATED SILICON CONTENT. IRON, ALUMINUM, AND CHROMIUM MAY BE SOURCED TO WEAR OF THE CYLINDER LINERS, PISTONS, AND RINGS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. CHECK AIR FILTER(S) FOR CLOGGING. INSPECT THE AIR INDUCTION SYSTEM AND TURBOCHARGER FOR EVIDENCE OF DIRT CONTAMINATION.

CONDITION / CONTAMINATION

	07-Jan-22	30-Sep-21	19-Aug-21	23-Jun-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.50	14.4	14.3	14.2
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	100.7	100.1	97.3	98.0

WEAR LEVELS / ADDITIVES

	07-Jan-22	30-Sep-21	19-Aug-21	23-Jun-21
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	2	3	3	1
K Potassium	9	26	23	10
Si Silicon	11	26	21	11
Al Aluminum	15	28	26	13
Fe Iron	47	128	102	57
Cr Chromium	5	11	9	5
Pb Lead	0	0	0	0
Cu Copper	6	13	10	5
Sn Tin	1	1	0	0
Ni Nickel	1	1	1	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1219	1322	1298	1245
Ca Calcium	1067	1161	1146	1084
Mg Magnesium	1005	1184	971	961
Ba Barium	0	0	0	0
B Boron	1	3	1	1
Mo Molybdenum	62	65	59	59
P Phosphorus	1019	1082	1037	1032

VISCOSITY INDEX

VI Viscosity Index	149	148	151	149
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INFRARED (UFM)

ST Soot	31	67	45	20
OXI Oxidation	17	21	18	15
SUL Sulfur Products	21	26	24	20
NIT Nitration	9	11	10	8

ANTIFREEZE

A Antifreeze	N	N	N	N
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GLYCOL CONTENT (%)

PGC Percent Glycol Con	0			
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FUEL

F Fuel	N	N	N	N
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WATER

W Water	N	N	N	N
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ENGINE

N030-52207-0463
 LABEL#: 200835860
 SHOP JOB NUM : 5553
 SAMPLE SHIP TIME (days) : 7
CYPRESS COUNTY
 RECEIVED DATE: 26-Jul-22

EQUIP NUM: U53004
WESTERN_ST 4900SB
 **No Action Required**

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

Interp By: Gregory Scribner
Interpreted On: 28-Jul-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
Sampled Date	19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
Sample Id	N030-52207-0463	N030-52167-0135	N030-52119-0307	N030-52018-0229
Lab Date	26-Jul-22	16-Jun-22	29-Apr-22	18-Jan-22
Meter [Hr]	4968	4760	4582	4423
Meter On Fluid	208	565	387	228
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type	DURON UHP	DURON UHP	DURON UHP	
Fluid Change	N	Y	N	N
Filter Change	N	Y	N	N
Make Up Fluid []	0	0	0	0

CONDITION / CONTAMINATION

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	13.80	13.80	14.30	14.50
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	99.30	100.8	101.7	100.7
VISCOSITY INDEX					
VI	Viscosity Index	140	138	144	149

WEAR LEVELS / ADDITIVES

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	0	3	2	2
K	Potassium	3	18	16	9
Si	Silicon	10	16	14	11
Al	Aluminum	10	28	24	15
Fe	Iron	38	80	72	47
Cr	Chromium	2	6	6	5
Pb	Lead	0	0	0	0
Cu	Copper	5	9	7	6
Sn	Tin	0	0	0	1
Ni	Nickel	1	2	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1188	1313	1303	1219
Ca	Calcium	1101	1128	1115	1067
Mg	Magnesium	890	1064	1021	1005
Ba	Barium	0	0	0	0
B	Boron	1	0	1	1
Mo	Molybdenum	55	63	62	62
P	Phosphorus	1008	1052	1050	1019

INFRARED (UFM)

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
ST	Soot	26	49	37	31
OXI	Oxidation	16	20	17	17
SUL	Sulfur Products	21	25	21	21
NIT	Nitration	8	11	10	9

ANTIFREEZE

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
A	Antifreeze	N	N	N	N

FUEL

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
F	Fuel	N	N	N	N

WATER

		19-Jul-22	10-Jun-22	19-Apr-22	07-Jan-22
W	Water	N	N	N	N

ENGINE

N030-52167-0135
 LABEL#: 200957610
 SHOP JOB NUM : 5462
 SAMPLE SHIP TIME (days) : 6
CYPRESS COUNTY
 RECEIVED DATE: 16-Jun-22

EQUIP NUM: U53004
WESTERN_ST 4900SB

No Action Required

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

Interp By: Peter Lewandowski
Interpreted On: 17-Jun-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
Sampled Date	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
Sample Id	N030-52167-0135	N030-52119-0307	N030-52018-0229	N030-51287-0563
Lab Date	16-Jun-22	29-Apr-22	18-Jan-22	14-Oct-21
Meter [Hr]	4760	4582	4423	4195
Meter On Fluid	565	387	228	177
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type	DURON UHP	DURON UHP		
Fluid Change	Y	N	N	Y
Filter Change	Y	N	N	Y
Make Up Fluid []	0	0	0	0

PREVIOUS SAMPLE

SLIGHTLY ELEVATED IRON CONTENT. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT INTERVAL.

CONDITION / CONTAMINATION

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	13.80	14.30	14.50	14.4
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	100.8	101.7	100.7	100.1

WEAR LEVELS / ADDITIVES

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	3	2	2	3
K Potassium	18	16	9	26
Si Silicon	16	14	11	26
Al Aluminum	28	24	15	28
Fe Iron	80	72	47	128
Cr Chromium	6	6	5	11
Pb Lead	0	0	0	0
Cu Copper	9	7	6	13
Sn Tin	0	0	1	1
Ni Nickel	2	1	1	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1313	1303	1219	1322
Ca Calcium	1128	1115	1067	1161
Mg Magnesium	1064	1021	1005	1184
Ba Barium	0	0	0	0
B Boron	0	1	1	3
Mo Molybdenum	63	62	62	65
P Phosphorus	1052	1050	1019	1082

VISCOSITY INDEX

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
VI Viscosity Index	138	144	149	148

INFRARED (UFM)

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
ST Soot	49	37	31	67
OXI Oxidation	20	17	17	21
SUL Sulfur Products	25	21	21	26
NIT Nitration	11	10	9	11

ANTIFREEZE

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
A Antifreeze	N	N	N	N

GLYCOL CONTENT (%)

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
PGC Percent Glycol Con				0

FUEL

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
F Fuel	N	N	N	N

WATER

	10-Jun-22	19-Apr-22	07-Jan-22	30-Sep-21
W Water	N	N	N	N

ENGINE

N030-52119-0307

LABEL#: 200957447

SHOP JOB NUM : 5300

SAMPLE SHIP TIME (days) : 10

CYPRESS COUNTY

RECEIVED DATE: 29-Apr-22

EQUIP NUM: U53004

WESTERN_ST 4900SB

No Action Required

SERIAL NUMBER: 0GLGS2011

COMP SERIAL NUM: 47192750332706

Interp By: Gregory Scribner

Interpreted On: 04-May-22

SLIGHTLY ELEVATED IRON CONTENT. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT INTERVAL.

SAMPLE INFORMATION

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
Sampled Date	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
Sample Id	N030-52119-0307	N030-52018-0229	N030-51287-0563	N030-51236-0199
Lab Date	29-Apr-22	18-Jan-22	14-Oct-21	24-Aug-21
Meter [Hr]	4582	4423	4195	4018
Meter On Fluid	387	228	177	428
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type	DURON UHP			
Fluid Change	N	N	Y	N
Filter Change	N	N	Y	N
Make Up Fluid []	0	0	0	

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.30	14.50	14.4	14.3

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	101.7	100.7	100.1	97.3

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
VISCOSITY INDEX				
VI Viscosity Index	144	149	148	151

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
INFRARED (UFM)				
ST Soot	37	31	67	45
OXI Oxidation	17	17	21	18
SUL Sulfur Products	21	21	26	24
NIT Nitration	10	9	11	10

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
ANTIFREEZE				
A Antifreeze	N	N	N	N

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
GLYCOL CONTENT (%)				
PGC Percent Glycol Con			0	

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
FUEL				
F Fuel	N	N	N	N

	19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
WATER				
W Water	N	N	N	N

WEAR LEVELS / ADDITIVES

19-Apr-22 07-Jan-22 30-Sep-21 19-Aug-21

ELEMENTAL ANALYSIS (ppm)		19-Apr-22	07-Jan-22	30-Sep-21	19-Aug-21
Na Sodium		2	2	3	3
K Potassium		16	9	26	23
Si Silicon		14	11	26	21
Al Aluminum		24	15	28	26
Fe Iron		72	47	128	102
Cr Chromium		6	5	11	9
Pb Lead		0	0	0	0
Cu Copper		7	6	13	10
Sn Tin		0	1	1	0
Ni Nickel		1	1	1	1
Ag Silver		0	0	0	0
Ti Titanium		0	0	0	0
V Vanadium		0	0	0	0
Zn Zinc		1303	1219	1322	1298
Ca Calcium		1115	1067	1161	1146
Mg Magnesium		1021	1005	1184	971
Ba Barium		0	0	0	0
B Boron		1	1	3	1
Mo Molybdenum		62	62	65	59
P Phosphorus		1050	1019	1082	1037

ENGINE

N030-52250-0564

LABEL#: 201080814

SAMPLE SHIP TIME (days) : 6

CYPRESS COUNTY

RECEIVED DATE: 07-Sep-22

EQUIP NUM: U53004

WESTERN_ST 4900SB

No Action Required

SERIAL NUMBER: 0GLGS2011

COMP SERIAL NUM: 47192750332706

Interp By: Greg Eyre

Interpreted On: 09-Sep-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
Sampled Date	01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
Sample Id	N030-52250-0564	N030-52207-0463	N030-52167-0135	N030-52119-0307
Lab Date	07-Sep-22	26-Jul-22	16-Jun-22	29-Apr-22
Meter [Hr]	5159	4968	4760	4582
Meter On Fluid	399	208	565	387
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type	DURON UHP	DURON UHP	DURON UHP	DURON UHP
Fluid Change	N	N	Y	N
Filter Change	N	N	Y	N
Make Up Fluid []		0	0	0

CONDITION / CONTAMINATION

		01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.80	13.80	13.80	14.30
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	101.8	99.30	100.8	101.7
VISCOSITY INDEX					
VI	Viscosity Index	151	140	138	144

WEAR LEVELS / ADDITIVES

	01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	2	0	3	2
K	Potassium	6	3	18	16
Si	Silicon	9	10	16	14
Al	Aluminum	10	10	28	24
Fe	Iron	47	38	80	72
Cr	Chromium	3	2	6	6
Pb	Lead	0	0	0	0
Cu	Copper	5	5	9	7
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	2	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1196	1188	1313	1303
Ca	Calcium	1090	1101	1128	1115
Mg	Magnesium	1054	890	1064	1021
Ba	Barium	0	0	0	0
B	Boron	3	1	0	1
Mo	Molybdenum	56	55	63	62
P	Phosphorus	979	1008	1052	1050

INFRARED (UFM)

		01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
ST	Soot	46	26	49	37
OXI	Oxidation	19	16	20	17
SUL	Sulfur Products	23	21	25	21
NIT	Nitration	10	8	11	10

ANTIFREEZE

		01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
A	Antifreeze	N	N	N	N

FUEL

		01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
F	Fuel	N	N	N	N

WATER

		01-Sep-22	19-Jul-22	10-Jun-22	19-Apr-22
W	Water	N	N	N	N



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PHONE: 1-888 FINNING (346-6464)

Email: oilsupport@finning.com Web: www.finning.com

CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
GREG SJOLIE CYPRESS COUNTY BOX 108 DUNMORE, AB CA T0J 1A0 PHONE: 4035262888 FAX: 4035268958 Email: TIGER@CYPRESS.AB.CA	CUSTOMER EQUIP NUM : U53004 SERIAL NUMBER : 0GLGS2011 MODEL : 4900SB MANUFACTURER : WESTERN_ST COMPANY NAME : CYPRESS COUNTY JOB SITE : AREA : REGION :	COMPARTMENT NAME : RADIATOR COMP SERIAL NUM : COMPARTMENT MODEL : LABEL# : 102519 SHOP JOB NUM : SAMPLE TYPE : COOLANT SAMPLE SHIP TIME (days) : 18 SAMPLE LOCATION :

Interp By: Antonia Castillo

Monitor Compartment
 ELEVATED COPPER. INHIBITOR LEVEL IS TOO LOW TO PROVIDE CORROSION/EROSION PROTECTION. ADD 1% CAPACITY OF ELC EXTENDER (CAT P/ N 119-5152) TO BOOST INHIBITOR. SAMPLE AGAIN AT HALF THE REGULAR INTERVAL TO MONITOR INHIBITORS LEVELS.

LAB #
 N030-47276-2132
 PROCESS 03-Oct-17
 DATE

CORROSION ELEMENTS - COOLANT FORMULATION																					
SAMPLE DATE	SAMPLE ID	FLUID BRAND	TYPE	NO2	NO3	MoO4	SiO3	BO3	PO4	SAC	TT	K	Na	Al	Cu	Fe	Pb	Sn	Zn	Ca	Mg
15-Sep-17	N030-47276-2132			174	152	990	26	151	4	1636	1156	4930	966	2	18	0	0	0	2	1	0

FREEZE/BOIL PROTECTION - CONTAMINATION																
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	FLUID CHANGE	GL	FP	BP	pH	CON	CL	GLO	SO4	TH	Foam
15-Sep-17	N030-47276-2132	975	975			U	52	-41	108	8.4	5710	7	665	36	3	norm

COOLANT PHYSICALS										
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	Color	App	Odor	Oil	PAmT
15-Sep-17	N030-47276-2132	975	975			red/orange	clear	norm	none	none

Al = Aluminum, App = Appearance, BO3 = Borate, BP = Boil Point(°C), CL = Chloride, CON = Conductivity, Ca = Calcium, Cu = Copper, FP = Freeze Point(°C), Fe = Iron, GL = Glycol, GLO = Glycolate, K = Potassium, Mg = Magnesium, MoO4 = Molybdate, NO2 = Nitrite, NO3 = Nitrate, Na = Sodium, PAmT = Precipitate Amount, PO4 = Phosphate, Pb = Lead, SAC = Sebaccic Acid, SO4 = Sulfate, SiO3 = Silicate, Sn = Tin, TH = Total Hardness, TT = Tolytriazole, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



ENGINE

N030-51110-0113
 LABEL#: 200483979
 SHOP JOB NUM : 4387
 SAMPLE SHIP TIME (days) : 8
CYPRESS COUNTY

EQUIP NUM: U53004
WESTERN_ST 4900SB
 **No Action Required**

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

Interp By: Greg Eyre
Interpreted On: 21-Apr-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
Sampled Date	12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
Sample Id	N030-51110-0113	N030-50336-0431	N030-50259-0097	N030-50202-0016
Lab Date	20-Apr-21	01-Dec-20	15-Sep-20	20-Jul-20
Meter [Hr]	3424	3354	3054	2840
Meter On Fluid	370	300	615	401
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	N	N	Y	N
Filter Change	N	N	Y	N
Make Up Fluid [l]	4		4	

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.6	14.3	13.8	14.0

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	99.1	98.2	97.0	96.4

VISCOSITY INDEX

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
VI	Viscosity Index	153	150	144	148

WEAR LEVELS / ADDITIVES

12-Apr-21 23-Nov-20 01-Sep-20 10-Jul-20

ELEMENTAL ANALYSIS (ppm)

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
Na	Sodium	1	2	3	2
K	Potassium	23	16	63	33
Si	Silicon	6	5	20	5
Al	Aluminum	24	16	47	28
Fe	Iron	39	27	73	40
Cr	Chromium	5	4	8	5
Pb	Lead	0	0	0	0
Cu	Copper	8	8	28	16
Sn	Tin	1	1	1	0
Ni	Nickel	1	0	1	2
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1291	1323	1547	1114
Ca	Calcium	1099	1094	1275	940
Mg	Magnesium	1146	1034	1088	825
Ba	Barium	0	0	0	0
B	Boron	2	1	1	1
Mo	Molybdenum	59	64	72	53
P	Phosphorus	1103	990	1200	895

INFRARED (UFM)

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
ST	Soot	30	28	52	34
OXI	Oxidation	16	16	20	17
SUL	Sulfur Products	21	21	24	22
NIT	Nitration	9	8	11	9

ANTIFREEZE

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
A	Antifreeze	N	N	N	N

GLYCOL CONTENT (%)

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
PGC	Percent Glycol Con			0	0

FUEL

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
F	Fuel	N	N	N	N

WATER

		12-Apr-21	23-Nov-20	01-Sep-20	10-Jul-20
W	Water	N	N	N	N

ENGINE

N030-51236-0199
 LABEL#: 200713763
 SHOP JOB NUM : 4917
 SAMPLE SHIP TIME (days) : 5
CYPRESS COUNTY
 RECEIVED DATE: 24-Aug-21

EQUIP NUM: U53004
WESTERN_ST 4900SB

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

Interp By: Gregory Scribner
Interpreted On: 25-Aug-21

Monitor Compartment

INCREASED IRON CONTENT. IRON, ALUMINUM, AND CHROMIUM MAY BE SOURCED TO WEAR OF THE CYLINDER LINERS, PISTONS, AND RINGS. OTHER READINGS APPEAR TO BE NORMAL. SUGGEST TO CHANGE OIL AND RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	19-Aug-21	23-Jun-21	26-May-21	12-Apr-21
Sampled Date	19-Aug-21	23-Jun-21	26-May-21	12-Apr-21
Sample Id	N030-51236-0199	N030-51180-0371	N030-51152-0103	N030-51110-0113
Lab Date	24-Aug-21	29-Jun-21	01-Jun-21	20-Apr-21
Meter [Hr]	4018	3758	3590	3424
Meter On Fluid	428	168	536	370
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	N	Y	Y	N
Filter Change	N	Y	Y	N
Make Up Fluid []		0	0	4

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

		19-Aug-21	23-Jun-21	26-May-21	12-Apr-21
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.3	14.2	13.8	14.6

VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	97.3	98.0	98.5	99.1

VISCOSITY INDEX					
VI	Viscosity Index	151	149	142	153

INFRARED (UFM)					
ST	Soot	45	20	43	30
OXI	Oxidation	18	15	19	16
SUL	Sulfur Products	24	20	23	21
NIT	Nitration	10	8	10	9

ANTIFREEZE					
A	Antifreeze	N	N	N	N

GLYCOL CONTENT (%)					
PGC	Percent Glycol Con			0.0015	

FUEL					
F	Fuel	N	N	N	N

WATER					
W	Water	N	N	N	N

WEAR LEVELS / ADDITIVES

19-Aug-21 23-Jun-21 26-May-21 12-Apr-21

ELEMENTAL ANALYSIS (ppm)					
	19-Aug-21	23-Jun-21	26-May-21	12-Apr-21	
Na	Sodium	3	1	2	1
K	Potassium	23	10	30	23
Si	Silicon	21	11	12	6
Al	Aluminum	26	13	33	24
Fe	Iron	102	57	73	39
Cr	Chromium	9	5	9	5
Pb	Lead	0	0	0	0
Cu	Copper	10	5	13	8
Sn	Tin	0	0	2	1
Ni	Nickel	1	1	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1298	1245	1268	1291
Ca	Calcium	1146	1084	1146	1099
Mg	Magnesium	971	961	1125	1146
Ba	Barium	0	0	0	0
B	Boron	1	1	1	2
Mo	Molybdenum	59	59	69	59
P	Phosphorus	1037	1032	1025	1103



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 Email: TIGER@CYPRESS.AB.CA

Interp By: Greg Eyre

EQUIPMENT

CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA :
 REGION :

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 4704818
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 14
 SAMPLE LOCATION :

**Monitor
 Compartment**

INCREASED SOOT LEVEL AFFECTED BY A/F RATIO; INTAKE RESTRAINT; LOW ENGINE TEMP; HIGHER LOADS; OIL DUTY. IRON, ALUMINUM AND CHROMIUM COULD BE DUE TO WEAR FROM CYLINDERS; PISTONS AND RINGS. COPPER MAY BE SOURCED TO OIL COOLER LEACHING. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-47355-0237

PROCESS 21-Dec-17
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
07-Dec-17	N030-47355-0237	1179	626	Y	Y	4	50	4	29	41	4	2	407	0	1	1	0	0	1114	2094	157	0	35	8	884
15-Sep-17	N030-47275-0413	975	422	N	N	4	38	3	20	31	3	1	458	0	1	1	0	0	1106	2140	161	0	60	9	913
15-Jun-17	N030-47174-0067	788	235	N	N	4	34	3	18	27	2	3	293	0	1	1	0	0	1129	2174	171	0	88	10	918
26-Jan-17	N030-47045-0010	553	553	Y	Y	7	50	5	19	59	4	2	423	<0	1	1	0	<0	1101	1992	803	0	38	42	872

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
07-Dec-17	N030-47355-0237	1179	626	PETRO-CAN	DURON E	10W-40	Y	Y	14.2	105.3	137	22	18	21	8	N	0	N
15-Sep-17	N030-47275-0413	975	422	PETRO-CAN	DURON E	10W-40	N	N	15.0	103.1	152	16	16	20	8	N	0	N
15-Jun-17	N030-47174-0067	788	235	PETRO-CAN	DURON E	10W-40	N	N	14.7	101.2	151	10	15	19	6	N	0	N
26-Jan-17	N030-47045-0010	553	553	PETRO-CAN	DURON-E	10W-40	Y	Y	14.6	109.4		19	16	20	8	N		NT

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
07-Dec-17	N030-47355-0237	Y	Y	N
15-Sep-17	N030-47275-0413	N	N	N
15-Jun-17	N030-47174-0067	N	N	N
26-Jan-17	N030-47045-0010	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 T0J 1A0
 PHONE: 4035262888
 FAX: 4035268958
 Email: GREG.SJOLIE@CYPRESS.AB.

EQUIPMENT
 CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION
 COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 200382079
 SHOP JOB NUM : 3391
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 12
 SAMPLE LOCATION :

Interp By: Peter Leggo

No Action Required ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
 N030-50049-0774
 PROCESS 18-Feb-20
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
06-Feb-20	N030-50049-0774	2439	627	Y	Y	3	60	6	45	53	7	0	49	1	1	0	0	0	1270	1089	938	0	2	62	896
07-Feb-19	N030-49045-0019	2019	207	N	N	4	30	3	23	23	4	0	37	0	1	0	0	0	1281	1109	953	0	4	65	1020
07-Nov-18	N030-48318-0092	1812	635	Y	Y	4	85	5	53	48	8	0	109	0	1	0	0	0	1264	1382	800	0	8	50	970
06-Jul-18	N030-48208-0001	1606	427	N	N	2	73	4	46	34	6	0	120	0	0	0	0	0	1223	1356	774	0	10	43	988

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
06-Feb-20	N030-50049-0774	2439	627	PETRO-CAN		10W-40	Y	Y	14.0	96.8	148	35	17	21	9	N	0	N
07-Feb-19	N030-49045-0019	2019	207	PETRO-CAN	DURON UHP	10W-40	N	N	14.6	101.0	150	12	14	19	6	N	0	N
07-Nov-18	N030-48318-0092	1812	635	PETRO-CAN	DURON UHP	10W-40	Y	Y	14.1	101.8	141	27	16	21	8	N	0	N
06-Jul-18	N030-48208-0001	1606	427	PETRO-CAN	DURON UHP	10W-40	N	N	14.1	101.2	142	20	16	20	8	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
06-Feb-20	N030-50049-0774	Y	Y	N
07-Feb-19	N030-49045-0019	N	N	N
07-Nov-18	N030-48318-0092	Y	Y	N
06-Jul-18	N030-48208-0001	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 PHONE: 4035262888
 FAX: 4035268958
 Email: TIGER@CYPRESS.AB.CA

Interp By: Gregory Scribner

EQUIPMENT

CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA :
 REGION :

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 005037810
 SHOP JOB NUM : 2588
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 7
 SAMPLE LOCATION :

**No Action
 Required**

ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEWER ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. COPPER MAY BE SOURCED TO OIL COOLER CORE LEACHING. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-49045-0019

PROCESS 14-Feb-19
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
07-Feb-19	N030-49045-0019	2019	207	N	N	4	30	3	23	23	4	0	37	0	1	0	0	0	1281	1109	953	0	4	65	1020
07-Nov-18	N030-48318-0092	1812	635	Y	Y	4	85	5	53	48	8	0	109	0	1	0	0	0	1264	1382	800	0	8	50	970
06-Jul-18	N030-48208-0001	1606	427	N	N	2	73	4	46	34	6	0	120	0	0	0	0	0	1223	1356	774	0	10	43	988
21-Feb-18	N030-48061-0608	1405	228	N	N	3	69	3	40	24	4	0	125	0	0	0	0	0	1200	1312	772	0	11	47	990

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
07-Feb-19	N030-49045-0019	2019	207	PETRO-CAN	DURON UHP	10W-40	N	N	14.6	101.0	150	12	14	19	6	N	0	N
07-Nov-18	N030-48318-0092	1812	635	PETRO-CAN	DURON UHP	10W-40	Y	Y	14.1	101.8	141	27	16	21	8	N	0	N
06-Jul-18	N030-48208-0001	1606	427	PETRO-CAN	DURON UHP	10W-40	N	N	14.1	101.2	142	20	16	20	8	N	0	N
21-Feb-18	N030-48061-0608	1405	228	PETRO-CAN	DURON E	10W-40	N	N	14.3	98.8	149	10	15	20	6	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
07-Feb-19	N030-49045-0019	N	N	N
07-Nov-18	N030-48318-0092	Y	Y	N
06-Jul-18	N030-48208-0001	N	N	N
21-Feb-18	N030-48061-0608	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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PROACTIVE FLUID ANALYSIS

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Unit Information	Service Information
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UNIT: U53004	Warranty Expiry Date:	Service Interval:	
Equip Make: WESTERN STAR	Comp Make: DETROIT_DS	Work Order No:	
Equip Model: 4900SB	Comp Model: DD13	Job Site: Default Site	Customer Comments:
Equip Serial: 0GLGS2011	Comp Serial: 47192750332706	Branch: Default Site	
Component: ENGINE		Sampled Site: Default Site	

Evaluation Code	A	Recommendation	Normal	Date	26/01/17	Lab Number	N030-47045-0010
Copper alone usually indicates cooler core leaching and is not normally wear of bronze/brass parts. Wear metal analysis indicates acceptable wear rate. Oil condition analysis is acceptable. Initially elevated "break-in" readings will usually improve after the 2nd, 3rd oil drain intervals. Re sample at the next service interval.							
Days to reach Lab	19	Interpreted By	Dallas Livingston	Analyzed By	jnewman	Label Number	4633106

Evaluation Code	A	Recommendation	Normal	Date	18/11/16	Lab Number	N030-46330-0521
Elevated copper level may be due to increased oil cooler core leaching, not wear. Oil change or new formulation can restart cooler core leaching. Wear metal analysis indicates acceptable wear rate. Oil condition analysis is acceptable. Other readings appear to be normal. Resample at the next service interval.							
Days to reach Lab	10	Interpreted By	Peter Lewandowski	Analyzed By	jnewman	Label Number	4562632

Sample Information										Sample Reading															
Evaluation	SMU	CMU	Oil	Oil	Filter	Sample	Received	Oil	Oil	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	ST	OXI	SUL
Baseline	Hours	Chg	Chg	Date	Date	Brand	Grade	Sodium	Potassium	Silicon	Aluminum	Iron	Chromium	Lead	Copper	Tin	Nickel	Silver	Titanium	Vanadium	Scot	Oxidation	Sulfation		
A	553	553	553	Y	Y	26/01/17	14/02/17	PCDURONE	10W-40	7	50	5	19	59	4	2	423	<0	1	1	0	<0	19	16	20
A	373	373	373	N	N	18/11/16	29/11/16	FACTORY		6	39	5	13	51	2	1	301	2	1	1	0	<0	13	15	19
A	190	190	190	N	N	22/02/16	26/02/16	FACTORY		6	24	4	5	39	1	0	27	<0	1	1	0	<0	5	14	17

Sample Reading														
NT	Zn	Ca	Mg	Ba	B	Mo	P	V100	V40	F	W	% Water	% Fuel	GLY
Nitrogen	Zinc	Calcium	Magnesium	Barium	Boron	Molybdenum	Phosphorus	Viscosity	Viscosity	Fuel	Water	Percent W	Percent F	GLY
								15	99					
B	1101	1392	803	0	38	42	872	14.6	109.4	NT	N	0.00	0.0	N
B	1157	1419	817	0	43	43	945	14.4	107.4	NT	N	0.00	0.0	N
	1023	1245	751	0	44	41	887	13.6	103.6	NT	N	0.00	0.0	NT

CYPRESS COUNTY
 Attn: GREG SJOLIE
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 DUNMORE, AB T0J 1A0

P - Positive	T - Trace	N - Negative	NR - Not Required	NT - Not Tested			
A	No Action Required	B	Monitor	C	Action Required	X	Urgent Action Required



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EQUIPMENT

CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA :
 REGION :

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 4903217
 SHOP JOB NUM :
 SAMPLE TYPE : OIL
 SAMPLE SHIP TIME (days) : 21
 SAMPLE LOCATION :

Interp By: Gregory Scribner

No Action Required

INCREASED CHROMIUM COMMONLY SOURCED TO PISTON RINGS. ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEWER ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. COPPER MAY BE RELATED TO OIL COOLER CORE LEACHING. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
 N030-48208-0001
 PROCESS 27-Jul-18
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
06-Jul-18	N030-48208-0001	1606	427	N	N	2	73	4	46	34	6	0	120	0	0	0	0	0	1223	1356	774	0	10	43	988
21-Feb-18	N030-48061-0608	1405	228	N	N	3	69	3	40	24	4	0	125	0	0	0	0	0	1200	1312	772	0	11	47	990
07-Dec-17	N030-47355-0237	1179	626	Y	Y	4	50	4	29	41	4	2	407	0	1	1	0	0	1114	2094	157	0	35	8	884
15-Sep-17	N030-47275-0413	975	422	N	N	4	38	3	20	31	3	1	458	0	1	1	0	0	1106	2140	181	0	60	9	913

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
06-Jul-18	N030-48208-0001	1606	427	PETRO-CAN	DURON UHP	10W-40	N	N	14.1	101.2	142	20	16	20	8	N	0	N
21-Feb-18	N030-48061-0608	1405	228	PETRO-CAN	DURON E	10W-40	N	N	14.3	98.8	149	10	15	20	6	N	0	N
07-Dec-17	N030-47355-0237	1179	626	PETRO-CAN	DURON E	10W-40	Y	Y	14.2	105.3	137	22	18	21	8	N	0	N
15-Sep-17	N030-47275-0413	975	422	PETRO-CAN	DURON E	10W-40	N	N	15.0	103.1	152	16	16	20	8	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
06-Jul-18	N030-48208-0001	N	N	N
21-Feb-18	N030-48061-0608	N	N	N
07-Dec-17	N030-47355-0237	Y	Y	N
15-Sep-17	N030-47275-0413	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 Email: GREG.SJOLIE@CYPRESS.AB.

Interp By: Peter Lewandowski

EQUIPMENT

EQUIP NUM: U53004
 SERIAL NUMBER: 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM: 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 200467724
 SHOP JOB NUM : 3949
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 10
 SAMPLE LOCATION :

**No Action
 Required**

ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-50202-0016

PROCESS 7/20/2020
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
10-Jul-20	N030-50202-0016	2840	401	N	N	2	33	5	28	40	5	0	16	0	2	0	0	0	1114	940	825	0	1	53	895
28-May-20	N030-50161-0398	2661	222	N	N	2	30	4	23	36	4	0	15	0	1	0	0	0	1229	1034	908	0	1	54	1001
06-Feb-20	N030-50049-0774	2439	627	Y	Y	3	60	6	45	53	7	0	49	1	1	0	0	0	1270	1089	938	0	2	62	896
07-Feb-19	N030-49045-0019	2019	207	N	N	4	30	3	23	23	4	0	37	0	1	0	0	0	1281	1109	953	0	4	65	1020

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VJ	ST	OXI	SUL	NIT	A	PGC	F
10-Jul-20	N030-50202-0016	2840	401	PETRO-CAN		10W-40	N	N	14.0	96.4	148	34	17	22	9	N	0	N
28-May-20	N030-50161-0398	2661	222	PETRO-CAN		10W-40	N	N	14.2	97.6	149	19	15	20	7	N	0	N
06-Feb-20	N030-50049-0774	2439	627	PETRO-CAN		10W-40	Y	Y	14.0	96.8	148	35	17	21	9	N	0	N
07-Feb-19	N030-49045-0019	2019	207	PETRO-CAN	DURON UHP	10W-40	N	N	14.6	101.0	150	12	14	19	6	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
10-Jul-20	N030-50202-0016	N	N	N
28-May-20	N030-50161-0398	N	N	N
06-Feb-20	N030-50049-0774	Y	Y	N
07-Feb-19	N030-49045-0019	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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ENGINE

N030-51152-0103
 LABEL#: 200672101
 SHOP JOB NUM : 4720
 SAMPLE SHIP TIME (days) : 6
CYPRESS COUNTY

EQUIP NUM: U53004

WESTERN_ST 4900SB

✓
 No Action Required

SERIAL NUMBER: 0GLGS2011

COMP SERIAL NUM: 47192750332706

Interp By: Peter Leggo

Interpreted On: 01-Jun-21

ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
Sampled Date	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
Sample Id	N030-51152-0103	N030-51110-0113	N030-50336-0431	N030-50259-0097
Lab Date	01-Jun-21	20-Apr-21	01-Dec-20	15-Sep-20
Meter [Hr]	3590	3424	3354	3054
Meter On Fluid	536	370	300	615
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	Y	N	N	Y
Filter Change	Y	N	N	Y
Make Up Fluid []	0	4		4

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
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VISCOSITY (Centistokes)		26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
V100	Viscosity at 100 C	13.8	14.6	14.3	13.8

VISCOSITY (Centistokes)		26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
V40	Viscosity at 40 C	98.5	99.1	98.2	97.0

VISCOSITY INDEX

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
VI	Viscosity Index	142	153	150	144

INFRARED (UFM)

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
ST	Soot	43	30	28	52
OXI	Oxidation	19	16	16	20
SUL	Sulfur Products	23	21	21	24
NIT	Nitration	10	9	8	11

ANTIFREEZE

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
A	Antifreeze	N	N	N	N

GLYCOL CONTENT (%)

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
PGC	Percent Glycol Con	0.0015		0

FUEL

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
F	Fuel	N	N	N	N

WATER

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
W	Water	N	N	N	N

WEAR LEVELS / ADDITIVES

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20
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ELEMENTAL ANALYSIS (ppm)

	26-May-21	12-Apr-21	23-Nov-20	01-Sep-20	
Na	Sodium	2	1	2	3
K	Potassium	30	23	16	63
Si	Silicon	12	6	5	20
Al	Aluminum	33	24	16	47
Fe	Iron	73	39	27	73
Cr	Chromium	9	5	4	8
Pb	Lead	0	0	0	0
Cu	Copper	13	8	8	28
Sn	Tin	2	1	1	1
Ni	Nickel	1	1	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1268	1291	1323	1547
Ca	Calcium	1146	1099	1094	1275
Mg	Magnesium	1125	1146	1034	1088
Ba	Barium	0	0	0	0
B	Boron	1	2	1	1
Mo	Molybdenum	69	59	64	72
P	Phosphorus	1025	1103	990	1200



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CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
GREG SJOLIE CYPRESS COUNTY BOX 108 DUNMORE, AB CA T0J 1A0 PHONE: 4035262888 FAX: 4035268958	CUSTOMER EQUIP NUM : U53004 SERIAL NUMBER : OGLGS2011 MODEL : 4900SB MANUFACTURER : WESTERN_ST COMPANY NAME : CYPRESS COUNTY JOB SITE : AREA : REGION :	COMPARTMENT NAME : ENGINE COMP SERIAL NUM : 47192750332706 COMPARTMENT MODEL : LABEL#: 4888491 SHOP JOB NUM : SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 8 SAMPLE LOCATION :

Intorp By: Peter Leggo

No Action Required

ELEVATED COPPER LEVEL MAY BE DUE TO INCREASED OIL COOLER CORE LEACHING; NOT WEAR. OIL CHANGE OR NEW FORMULATION CAN RESTART COOLER CORE LEACHING. ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
N030-47174-0067

PROCESS DATE 23-Jun-17

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																										
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Na	K	SI	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
15-Jun-17	N030-47174-0067	788	235	N	N		4	34	3	18	27	2	3	293	0	1	1	0	0	1129	2174	171	0	88	10	918
26-Jan-17	N030-47045-0010	553	553	Y	Y		7	50	5	19	59	4	2	423	<0	1	1	0	<0	1101	1392	803	0	38	42	872
18-Nov-16	N030-46330-0521	373	373	N	N		6	39	5	13	51	2	1	301	2	1	1	0	<0	1157	1419	817	0	43	43	945
22-Feb-16	N030-46057-0254	190	190	N	N		6	24	4	5	39	1	0	27	<0	1	1	0	<0	1023	1245	751	0	44	41	887

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																			
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
15-Jun-17	N030-47174-0067	788	235	PETRO-CAN	DURON E	10W-40	N	N		14.7	101.2	151	10	15	19	6	N	0	N
26-Jan-17	N030-47045-0010	553	553	PETRO-CAN	DURON-E	10W-40	Y	Y		14.6	109.4		19	18	20	8	N		NT
18-Nov-16	N030-46330-0521	373	373	FACTORYFIL	UNKNOWN		N	N		14.4	107.4		13	15	19	8	N		NT
22-Feb-16	N030-46057-0254	190	190	FACTORYFIL	UNKNOWN		N	N		13.6	103.6		5	14	17		N		NT

OIL CLEANLINESS					
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	W
15-Jun-17	N030-47174-0067	N	N		N
26-Jan-17	N030-47045-0010	Y	Y		N
18-Nov-16	N030-46330-0521	N	N		N
22-Feb-16	N030-46057-0254	N	N		N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

ENGINE

N030-51180-0371
 LABEL#: 200485644
 SHOP JOB NUM : 4829
 SAMPLE SHIP TIME (days) : 6
CYPRESS COUNTY

EQUIP NUM: U53004
WESTERN_ST 4900SB

No Action Required

SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706

Interp By: Gregory Scribner
Interpreted On: 30-Jun-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	23-Jun-21	26-May-21	12-Apr-21	23-Nov-20
Sampled Date	23-Jun-21	26-May-21	12-Apr-21	23-Nov-20
Sample Id	N030-51180-0371	N030-51152-0103	N030-51110-0113	N030-50336-0431
Lab Date	29-Jun-21	01-Jun-21	20-Apr-21	01-Dec-20
Meter [Hr]	3758	3590	3424	3354
Meter On Fluid	168	536	370	300
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	Y	Y	N	N
Filter Change	Y	Y	N	N
Make Up Fluid []	0	0	4	

PREVIOUS SAMPLE

ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

		23-Jun-21	26-May-21	12-Apr-21	23-Nov-20
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.2	13.8	14.6	14.3

VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	98.0	98.5	99.1	98.2

WEAR LEVELS / ADDITIVES

23-Jun-21 26-May-21 12-Apr-21 23-Nov-20

ELEMENTAL ANALYSIS (ppm)

	23-Jun-21	26-May-21	12-Apr-21	23-Nov-20	
Na	Sodium	1	2	1	2
K	Potassium	10	30	23	16
Si	Silicon	11	12	6	5
Al	Aluminum	13	33	24	16
Fe	Iron	57	73	39	27
Cr	Chromium	5	9	5	4
Pb	Lead	0	0	0	0
Cu	Copper	5	13	8	8
Sn	Tin	0	2	1	1
Ni	Nickel	1	1	1	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1245	1268	1291	1323
Ca	Calcium	1084	1146	1099	1094
Mg	Magnesium	961	1125	1146	1034
Ba	Barium	0	0	0	0
B	Boron	1	1	2	1
Mo	Molybdenum	59	69	59	64
P	Phosphorus	1032	1025	1103	990

VISCOSITY INDEX

VI	Viscosity Index	149	142	153	150
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INFRARED (UFM)

ST	Soot	20	43	30	28
OXI	Oxidation	15	19	16	16
SUL	Sulfur Products	20	23	21	21
NIT	Nitration	8	10	9	8

ANTIFREEZE

A	Antifreeze	N	N	N	N
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GLYCOL CONTENT (%)

PGC	Percent Glycol Con		0.0015		
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FUEL

F	Fuel	N	N	N	N
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WATER

W	Water	N	N	N	N
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CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
GREG SJOLIE CYPRESS COUNTY BOX 108 DUNMORE, AB T0J 1A0 PHONE: 4035262888 FAX: 4035268958 Email: GREG.SJOLIE@CYPRESS.AB.	EQUIP NUM: U53004 SERIAL NUMBER: 0GLGS2011 MODEL : 4900SB MANUFACTURER : WESTERN_ST COMPANY NAME : CYPRESS COUNTY JOB SITE : AREA: REGION:	COMPARTMENT NAME : ENGINE COMP SERIAL NUM: 47192750332706 COMPARTMENT MODEL : LABEL#: 200317154 SHOP JOB NUM : 3688 SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 12 SAMPLE LOCATION :

Interp By: Peter Lewandowski

No Action Required	ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.
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LAB #
N030-50161-0398

PROCESS DATE 09-Jun-20

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																									
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
28-May-20	N030-50161-0398	2661	222	N	N	2	30	4	23	36	4	0	15	0	1	0	0	0	1229	1034	908	0	1	54	1001
06-Feb-20	N030-50049-0774	2439	627	Y	Y	3	60	6	45	53	7	0	49	1	1	0	0	0	1270	1089	938	0	2	62	896
07-Feb-19	N030-49045-0019	2019	207	N	N	4	30	3	23	23	4	0	37	0	1	0	0	0	1281	1109	953	0	4	65	1020
07-Nov-18	N030-48318-0092	1812	635	Y	Y	4	85	5	53	48	8	0	109	0	1	0	0	0	1264	1382	800	0	8	50	970

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																			
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F	
28-May-20	N030-50161-0398	2661	222	PETRO-CAN		10W-40	N	N	14.2	97.6	149	19	15	20	7	N	0	N	
06-Feb-20	N030-50049-0774	2439	627	PETRO-CAN		10W-40	Y	Y	14.0	96.8	148	35	17	21	9	N	0	N	
07-Feb-19	N030-49045-0019	2019	207	PETRO-CAN	DURON UHP	10W-40	N	N	14.6	101.0	150	12	14	19	6	N	0	N	
07-Nov-18	N030-48318-0092	1812	635	PETRO-CAN	DURON UHP	10W-40	Y	Y	14.1	101.8	141	27	16	21	8	N	0	N	

OIL CLEANLINESS				
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
28-May-20	N030-50161-0398	N	N	N
06-Feb-20	N030-50049-0774	Y	Y	N
07-Feb-19	N030-49045-0019	N	N	N
07-Nov-18	N030-48318-0092	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



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 DUNMORE, AB
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 FAX: 4035268958
 Email: TIGER@CYPRESS.AB.CA

EQUIPMENT
 CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA :
 REGION :

SAMPLE INFORMATION
 COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 4680671
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 7
 SAMPLE LOCATION :

Interp By: Gregory Scribner

No Action Required

INCREASED CHROMIUM SOURCED TO PISTON RINGS. ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEWER ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. COPPER MAY BE RELATED TO OIL COOLER CORE LEACHING. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
 N030-48318-0092
 PROCESS 14-Nov-18
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
07-Nov-18	N030-48318-0092	1812	635	Y	Y	4	85	5	53	48	8	0	109	0	1	0	0	0	1264	1382	800	0	8	50	970
06-Jul-18	N030-48208-0001	1606	427	N	N	2	73	4	46	34	6	0	120	0	0	0	0	0	1223	1356	774	0	10	43	988
21-Feb-18	N030-48061-0608	1405	228	N	N	3	69	3	40	24	4	0	125	0	0	0	0	0	1200	1312	772	0	11	47	990
07-Dec-17	N030-47355-0237	1179	626	Y	Y	4	50	4	29	41	4	2	407	0	1	1	0	0	1114	2094	157	0	35	8	884

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
07-Nov-18	N030-48318-0092	1812	635	PETRO-CAN	DURON UHP	10W-40	Y	Y	14.1	101.8	141	27	16	21	8	N	0	N
06-Jul-18	N030-48208-0001	1606	427	PETRO-CAN	DURON UHP	10W-40	N	N	14.1	101.2	142	20	16	20	8	N	0	N
21-Feb-18	N030-48061-0608	1405	228	PETRO-CAN	DURON E	10W-40	N	N	14.3	98.8	149	10	15	20	6	N	0	N
07-Dec-17	N030-47355-0237	1179	626	PETRO-CAN	DURON E	10W-40	Y	Y	14.2	105.3	137	22	18	21	8	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
07-Nov-18	N030-48318-0092	Y	Y	N
06-Jul-18	N030-48208-0001	N	N	N
21-Feb-18	N030-48061-0608	N	N	N
07-Dec-17	N030-47355-0237	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

ENGINE
N030-51287-0563

LABEL#: 200528331

SHOP JOB NUM : 5014

SAMPLE SHIP TIME (days) : 14

CYPRESS COUNTY

RECEIVED DATE: 14-Oct-21

EQUIP NUM: U53004
WESTERN_ST 4900SB
Monitor Compartment
SERIAL NUMBER: 0GLGS2011
COMP SERIAL NUM: 47192750332706
Interp By: Gregory Scribner
Interpreted On: 18-Oct-21

SLIGHTLY ELEVATED SILICON CONTENT. IRON, ALUMINUM, AND CHROMIUM MAY BE SOURCED TO WEAR OF THE CYLINDER LINERS, PISTONS, AND RINGS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. CHECK AIR FILTER(S) FOR CLOGGING. INSPECT THE AIR INDUCTION SYSTEM AND TURBOCHARGER FOR EVIDENCE OF DIRT CONTAMINATION.

SAMPLE INFORMATION

	30-Sep-21	19-Aug-21	23-Jun-21	26-May-21
Sampled Date	30-Sep-21	19-Aug-21	23-Jun-21	26-May-21
Sample Id	N030-51287-0563	N030-51236-0199	N030-51180-0371	N030-51152-0103
Lab Date	14-Oct-21	24-Aug-21	29-Jun-21	01-Jun-21
Meter [Hr]	4195	4018	3758	3590
Meter On Fluid	177	428	168	536
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type				
Fluid Change	Y	N	Y	Y
Filter Change	Y	N	Y	Y
Make Up Fluid []	0		0	0

PREVIOUS SAMPLE

INCREASED IRON CONTENT. IRON, ALUMINUM, AND CHROMIUM MAY BE SOURCED TO WEAR OF THE CYLINDER LINERS, PISTONS, AND RINGS. OTHER READINGS APPEAR TO BE NORMAL. SUGGEST TO CHANGE OIL AND RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	30-Sep-21	19-Aug-21	23-Jun-21	26-May-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.4	14.3	14.2	13.8

VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	100.1	97.3	98.0	98.5

WEAR LEVELS / ADDITIVES

30-Sep-21 19-Aug-21 23-Jun-21 26-May-21

ELEMENTAL ANALYSIS (ppm)		30-Sep-21	19-Aug-21	23-Jun-21	26-May-21
Na	Sodium	3	3	1	2
K	Potassium	26	23	10	30
Si	Silicon	26	21	11	12
Al	Aluminum	28	26	13	33
Fe	Iron	128	102	57	73
Cr	Chromium	11	9	5	9
Pb	Lead	0	0	0	0
Cu	Copper	13	10	5	13
Sn	Tin	1	0	0	2
Ni	Nickel	1	1	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1322	1298	1245	1268
Ca	Calcium	1161	1146	1084	1146
Mg	Magnesium	1184	971	961	1125
Ba	Barium	0	0	0	0
B	Boron	3	1	1	1
Mo	Molybdenum	65	59	59	69
P	Phosphorus	1082	1037	1032	1025

VISCOSITY INDEX

VI Viscosity Index	148	151	149	142
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INFRARED (UFM)

ST Soot	67	45	20	43
OXI Oxidation	21	18	15	19
SUL Sulfur Products	26	24	20	23
NIT Nitration	11	10	8	10

ANTIFREEZE

A Antifreeze	N	N	N	N
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GLYCOL CONTENT (%)

PGC Percent Glycol Con	0			0.0015
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FUEL

F Fuel	N	N	N	N
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WATER

W Water	N	N	N	N
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 Email: TIGER@CYPRESS.AB.CA

Interp By: Peter Leggo

EQUIPMENT

CUSTOMER EQUIP NUM : U53004
 SERIAL NUMBER : 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA :
 REGION :

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM : 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 4679582
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 17
 SAMPLE LOCATION :

**No Action
 Required**

ELEVATED COPPER LEVEL MAY BE DUE TO INCREASED OIL COOLER CORE LEACHING, NOT WEAR. OIL CHANGE OR NEW FORMULATION CAN RESTART COOLER CORE LEACHING. ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
 N030-47275-0413
 PROCESS 02-Oct-17
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
15-Sep-17	N030-47275-0413	975	422	N	N	4	38	3	20	31	3	1	456	0	1	1	0	0	1106	2140	181	0	60	9	913
15-Jun-17	N030-47174-0067	788	235	N	N	4	34	3	18	27	2	3	283	0	1	1	0	0	1129	2174	171	0	88	10	918
26-Jan-17	N030-47045-0010	553	553	Y	Y	7	50	5	19	59	4	2	423	<0	1	1	0	<0	1101	1392	803	0	38	42	872
18-Nov-16	N030-46330-0521	373	373	N	N	6	39	5	13	51	2	1	301	2	1	1	0	<0	1157	1419	817	0	43	43	945

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
15-Sep-17	N030-47275-0413	975	422	PETRO-CAN	DURON E	10W-40	N	N	15.0	103.1	152	16	16	20	8	N	0	N
15-Jun-17	N030-47174-0067	788	235	PETRO-CAN	DURON E	10W-40	N	N	14.7	101.2	151	10	15	19	6	N	0	N
26-Jan-17	N030-47045-0010	553	553	PETRO-CAN	DURON-E	10W-40	Y	Y	14.6	109.4		19	16	20	8	N		NT
18-Nov-16	N030-46330-0521	373	373	FACTORYFIL	UNKNOWN		N	N	14.4	107.4		13	15	19	8	N		NT

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
15-Sep-17	N030-47275-0413	N	N	N
15-Jun-17	N030-47174-0067	N	N	N
26-Jan-17	N030-47045-0010	Y	Y	N
18-Nov-16	N030-46330-0521	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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PHONE: 1-888 FINNING (346-6464)

Email: digitalservices@finning.com Web: www.finning.com

CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
GREG SJOLIE CYPRESS COUNTY BOX 108 DUNMORE, AB T0J 1A0 PHONE: 4035262888 FAX: 4035268958 Email: GREG.SJOLIE@CYPRESS.AB.	EQUIP NUM: U53004 SERIAL NUMBER: 0GLGS2011 MODEL : 4900SB MANUFACTURER : WESTERN_ST COMPANY NAME : CYPRESS COUNTY JOB SITE : AREA: REGION:	COMPARTMENT NAME : ENGINE COMP SERIAL NUM: 47192750332706 COMPARTMENT MODEL : LABEL#: 200464007 SHOP JOB NUM : 4074 SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 14 SAMPLE LOCATION :

Interp By: Peter Leggo

Monitor Compartment

ELEVATED POTASSIUM AND ALUMINUM IS COMMON IN NEW 'C' CLASS ENGINES DUE TO SOLDER USED IN ASSEMBLY OF INTERCOOLER SYSTEM. SILICON (TYPICALLY DIRT) LEVEL APPEARS HIGH. THIS MAY INDICATE HIGH DIRT LEVEL IS CONTRIBUTING TO HIGHER THAN NORMAL WEAR. CHROME AND IRON ARE ELEVATED AND MAY INDICATE PISTON RING AND LINER WEAR. CHECK OPERATION, CHECK AIR INDUCTION SYSTEM FOR DIRT ENTRY, RESAMPLE TO CONFIRM AND MONITOR.

LAB #
 N030-50259-0097

PROCESS DATE 15-Sep-20

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
01-Sep-20	N030-50259-0097	3054	615	Y	Y	3	63	20	47	73	8	0	28	1	1	0	0	0	1547	1275	1088	0	1	72	1200
10-Jul-20	N030-50202-0016	2840	401	N	N	2	33	5	28	40	5	0	16	0	2	0	0	0	1114	940	825	0	1	53	895
28-May-20	N030-50161-0398	2661	222	N	N	2	30	4	23	36	4	0	15	0	1	0	0	0	1229	1034	908	0	1	54	1001
06-Feb-20	N030-50049-0774	2439	627	Y	Y	3	60	6	45	53	7	0	49	1	1	0	0	0	1270	1089	938	0	2	62	896

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PGC	F
01-Sep-20	N030-50259-0097	3054	615	PETRO-CAN		10W-40	Y	Y	13.8	97.0	144	52	20	24	11	N	0	N
10-Jul-20	N030-50202-0016	2840	401	PETRO-CAN		10W-40	N	N	14.0	96.4	148	34	17	22	9	N	0	N
28-May-20	N030-50161-0398	2661	222	PETRO-CAN		10W-40	N	N	14.2	97.6	149	19	15	20	7	N	0	N
06-Feb-20	N030-50049-0774	2439	627	PETRO-CAN		10W-40	Y	Y	14.0	96.8	148	35	17	21	9	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
01-Sep-20	N030-50259-0097	Y	Y	N
10-Jul-20	N030-50202-0016	N	N	N
28-May-20	N030-50161-0398	N	N	N
06-Feb-20	N030-50049-0774	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitrate, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PGC = Percent Glycol Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 T0J 1A0
 PHONE: 4035262888
 FAX: 4035268958
 Email: GREG.SJOLIE@CYPRESS.AB.

EQUIPMENT

EQUIP NUM: U53004
 SERIAL NUMBER: 0GLGS2011
 MODEL : 4900SB
 MANUFACTURER : WESTERN_ST
 COMPANY NAME : CYPRESS COUNTY
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM: 47192750332706
 COMPARTMENT MODEL :
 LABEL#: 200464007
 SHOP JOB NUM : 4074
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 14
 SAMPLE LOCATION :

Interp By: Peter Leggo

Monitor Compartment

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LAB #
 N030-50259-0097
 PROCESS DATE 15-Sep-20

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
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OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	PCC	F
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28-May-20	N030-50161-0398	2661	222	PETRO-CAN		10W-40	N	N	14.2	97.6	149	19	15	20	7	N	0	N
06-Feb-20	N030-50049-0774	2439	627	PETRO-CAN		10W-40	Y	Y	14.0	96.8	148	35	17	21	9	N	0	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
01-Sep-20	N030-50259-0097	Y	Y	N
10-Jul-20	N030-50202-0016	N	N	N
28-May-20	N030-50161-0398	N	N	N
06-Feb-20	N030-50049-0774	Y	Y	N

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