

No relevant graphs to display

monitor.

RECOMMENDATION	PROBLEMATIC TEST RESULTS						
Oil and filter change at the time of sampling has	Sample Status				ABNORMAL	NORMAL	NORMAL
been noted. Resample at the next service interval to	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<u> </u>	4.9	6

Customer Id: GFL629 Sample No.: GFL0084511 Lab Number: 05938065 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDE	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



27 Jun 2022 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

13 Aug 2021 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

10 Jun 2021 Diag: Wes Davis





Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

view report

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OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id 528007-1134

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

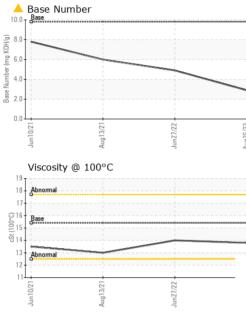
Fluid Condition

The BN level is low.

Junž021 Augž021 Junž022 Augž023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0084511	GFL0054139	GFL0029275	
Sample Date		Client Info		25 Aug 2023	27 Jun 2022	13 Aug 2021	
Machine Age	hrs	Client Info		16092	600	600	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				ABNORMAL	NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	62	68	15	
Chromium	ppm	ASTM D5185m	>20	2	2	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	6	7	0	
Lead	ppm	ASTM D5185m	>40	10	7	5	
Copper	ppm	ASTM D5185m	>330	<1	2	<1	
Tin	ppm	ASTM D5185m	>15	<1	1	<1	
Antimony	ppm	ASTM D5185m				0	
•	ppm ppm	ASTM D5185m ASTM D5185m		 0	0	0	
•							
Vanadium	ppm	ASTM D5185m	limit/base	0	0	0	
Vanadium Cadmium ADDITIVES	ppm	ASTM D5185m ASTM D5185m	limit/base 0	0 0	0 0	0	
Vanadium Cadmium ADDITIVES Boron	ppm ppm	ASTM D5185m ASTM D5185m method		0 0 current	0 0 history1	0 0 history2	
Vanadium Cadmium ADDITIVES Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	0	0 0 current 3	0 0 history1 8	0 0 history2 6	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	0	0 0 current 3 0	0 0 history1 8 0	0 0 history2 6 0	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	0 0 current 3 0 66	0 0 history1 8 0 63	0 0 history2 6 0 60	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	0 0 current 3 0 66 <1	0 0 history1 8 0 63 <1	0 0 history2 6 0 60 <1	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	0 0 current 3 0 66 <1 1055	0 0 history1 8 0 63 <1 919	0 0 history2 6 0 60 60 <1 912	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	0 0 current 3 0 66 <1 1055 1186	0 0 history1 8 0 63 <1 919 1090	0 0 history2 6 0 60 60 <1 912 1102	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	0 0 current 3 0 66 <1 1055 1186 1099	0 0 history1 8 0 63 <1 919 1090 984	0 0 history2 6 0 60 60 <1 912 1102 1006	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	0 0 current 3 0 66 <1 1055 1186 1099 1391	0 0 history1 8 0 63 <1 919 1090 984 1220	0 0 history2 6 0 60 60 <1 912 1102 1006 1186	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415	0 0 history1 8 0 63 <1 919 1090 984 1220 3189	0 0 history2 6 0 60 <1 912 1102 1006 1186 2572	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1	0 0 history2 6 0 60 <1 912 1102 1006 1186 2572 history2	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 Iimit/base >25	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8	0 0 history2 6 0 60 <1 912 1102 1006 1186 2572 history2 5	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 Iimit/base >25	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 3	0 0 history2 6 0 60 60 <1 912 1102 1006 1186 2572 history2 5 2	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3 3	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 3 5	0 0 history2 6 0 60 60 <1 912 1102 1006 1186 2572 history2 5 2 2 2	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN' Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3 3 3	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 5 5	0 0 history2 6 0 6 0 6 0 6 0 6 0 4 1 9 12 102 1006 1186 2572 5 5 2 2 2 2 2 1 2 2 2 102 102 102 102 102 1	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3 3 3 current 0.8	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 5 5 history1 0.6	0 0 10 history2 6 0 6 0 6 0 6 0 4 1 102 1006 1186 2572 1006 1186 2572 5 272 5 2 2 2 1006 1186 2572	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25 20 limit/base >3 >20	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3 3 3 current 0.8 13.3	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 5 history1 0.6 13.4	0 0 10 history2 6 0 6 0 6 0 6 0 4 1 9 12 1006 1102 1006 1186 2572 5 2572 5 2572 5 2 2 2 2 history2 0 0 11	
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Iimit/base >25 Iimit/base >3 >20	0 0 current 3 0 66 <1 1055 1186 1099 1391 3415 current 6 3 3 3 3 current 0.8 13.3 30.5	0 0 history1 8 0 63 <1 919 1090 984 1220 3189 history1 8 3 5 <u>history1</u> 0.6 13.4 27.8	0 0 history2 6 0 60 <1 912 1102 1006 1186 2572 history2 5 2 2 2 history2 0 11 28.6	



OIL ANALYSIS REPORT



	18 - Abnormal 17 - C-001 15 - 8ase 14 -			10.0 (0, 8.0 HOX Du baguny age 4.0	Base		
	Non-ferrous Meta		Jun27/22	Aug25/23	Base Number		
Jun27/22	50 40 30 20 10 1200 LIZEL Dmy		Jun21/22	Aug25/23			
 72	Visc @ 100°C GRAPHS Ferrous Alloys	cSt	ASTM D445	15.4	13.8	14.0	13.0
	Free Water	scalar scalar ERTIES	*Visual *Visual method	>0.2 limit/base	NEG NEG current	NEG NEG history1	NEG NEG history2
 Jun27/22 -		scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML NEG	NORML NORML NEG
	Silt Debris Sand/Dirt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
	Yellow Metal Precipitate	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE



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Submitted By: MIKE NEWMAN

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