



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Nickel	ppm	ASTM D5185m	>2	<u> </u>	1	0	

Customer Id: GFL410 Sample No.: GFL0059282 Lab Number: 06014772 Test Package: FLEET



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RECOMMENDE	COMMENDED 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



26 Sep 2023 Diag: Wes Davis

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.



view report

27 Jun 2022 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity. filter type and micron rating with next sample.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.

21 Apr 2022 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.







OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

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

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Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Machine Id 4673M

🔺 Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (····/	Apr202	2 Jun2022	Sep2023 No	v2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059282	GFL0084990	GFL0052135
Sample Date		Client Info		16 Nov 2023	26 Sep 2023	27 Jun 2022
Machine Age	hrs	Client Info		16412	15988	11698
Oil Age	hrs	Client Info		16412	15988	11698
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	28	39	12
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>2	<mark>/</mark> 7	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	2	6	2
_ead	ppm	ASTM D5185m	>30	<1	1	0
Copper	ppm	ASTM D5185m	>150	14	1	1
Tin	ppm	ASTM D5185m	>5	2	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	60	49
Vanganese						
	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm ppm					
0		ASTM D5185m	0	<1	<1	<1
Calcium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010	<1 1042	<1 927	<1 753
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070	<1 1042 1183	<1 927 1056	<1 753 895
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150	<1 1042 1183 1017	<1 927 1056 1024	<1 753 895 829
Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270	<1 1042 1183 1017 1310	<1 927 1056 1024 1268	<1 753 895 829 1077
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060	<1 1042 1183 1017 1310 2379	<1 927 1056 1024 1268 2939 history1 12	<1 753 895 829 1077 2435 history2 3
Calcium Phosphorus Zinc Sulfur CONTAMINAN [*] Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base	<1 1042 1183 1017 1310 2379 current	<1 927 1056 1024 1268 2939 history1	<1 753 895 829 1077 2435 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >20	<1 1042 1183 1017 1310 2379 current 8	<1 927 1056 1024 1268 2939 history1 12	<1 753 895 829 1077 2435 history2 3
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >20	<1 1042 1183 1017 1310 2379 current 8 5	<1 927 1056 1024 1268 2939 history1 12 29	<1 753 895 829 1077 2435 history2 3 5
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sidium Potassium INFRA-RED	ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >20	<1 1042 1183 1017 1310 2379 current 8 5 0	<1 927 1056 1024 1268 2939 history1 12 29 15	<1 753 895 829 1077 2435 history2 3 5 0
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >20 limit/base	<1 1042 1183 1017 1310 2379 current 8 5 0 current	<1 927 1056 1024 1268 2939 history1 12 29 15 history1	<1 753 895 829 1077 2435 history2 3 5 0 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >20 limit/base >3	<1 1042 1183 1017 1310 2379 current 8 5 0 current 0.9	<1 927 1056 1024 1268 2939 history1 12 29 15 history1 1.7	<1 753 895 829 1077 2435 history2 3 5 0 history2 0.4
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7415	0 1010 1070 1150 1270 2060 Iimit/base >20 S20 Iimit/base >3 >20	<1 1042 1183 1017 1310 2379 current 8 5 0 current 0.9 9.1	<1 927 1056 1024 1268 2939 history1 12 29 15 history1 1.7 13.0	<1 753 895 829 1077 2435 history2 3 5 0 0 history2 0.4 8.4
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7415	0 1010 1070 1150 1270 2060 Iimit/base >20 Iimit/base >3 >20 >3 >20	<1 1042 1183 1017 1310 2379 current 8 5 0 current 0.9 9.1 22.1	<1 927 1056 1024 1268 2939 history1 12 29 15 history1 1.7 13.0 24.3	<1 753 895 829 1077 2435 history2 3 5 0 history2 0.4 8.4 20.4



OIL ANALYSIS REPORT

