PROBLEM SUMMARY

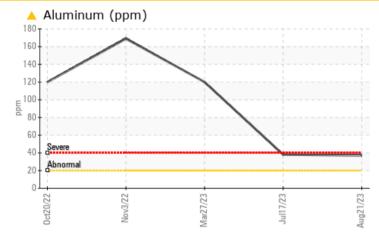


Sample Rating Trend WEAR

Machine Id 822026-1554

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	SEVERE		
Aluminum	ppm	ASTM D5185m	>20	A 37	A 38	120		

Customer Id: GFL659 Sample No.: GFL0090777 Lab Number: 05937740 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> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Jul 2023 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other 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.

27 Mar 2023 Diag: Don Baldridge

03 Nov 2022 Diag: Don Baldridge

WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The aluminum level is severe. 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 acceptable for the time in service.



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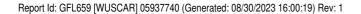


WEAR



We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Piston, ring and cylinder wear is indicated. There is an abnormal amount of solids and carbon present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.



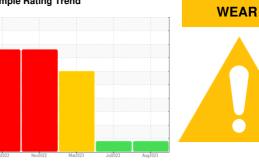




OIL ANALYSIS REPORT



SAMPLE INFORMATION method limit/base current



history1

history2

Machine	ld		
822	02	6-1	554

Component

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

The aluminum level is abnormal. 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.

SAMPLE INFORM	ATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		GFL0090777	GFL0085089	GFL0059785
Sample Date		Client Info		21 Aug 2023	17 Jul 2023	27 Mar 2023
Machine Age	hrs	Client Info		16778	16585	15901
Oil Age	hrs	Client Info		14995	14995	14995
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	29	69
Chromium	ppm	ASTM D5185m	>20	<1	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	3
	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m	>3	0	0	0
	ppm	ASTM D5185m	>20	<u> </u>	A 38	120
	ppm	ASTM D5185m	>40	<1	0	0
	ppm	ASTM D5185m	>330	<1	2	4
	ppm	ASTM D5185m	>15	0	0	0
	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	7	17
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	59	63	66
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1014	1004	948
Calcium	ppm	ASTM D5185m	1070	1158	1142	1208
Phosphorus	ppm	ASTM D5185m	1150	1045	1117	1087
Zinc	ppm	ASTM D5185m	1270	1304	1339	1307
Sulfur	ppm	ASTM D5185m	2060	3877	3916	3972
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	10
Sodium	ppm	ASTM D5185m		2	3	4
Potassium	ppm	ASTM D5185m	>20	1	<1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.1	1.3
Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.8	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.5	19.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	12.6	13.3	14.3

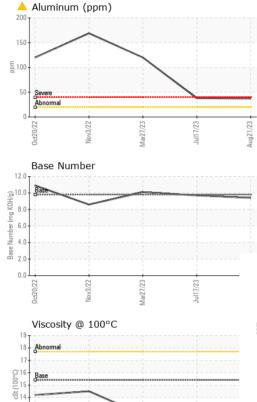


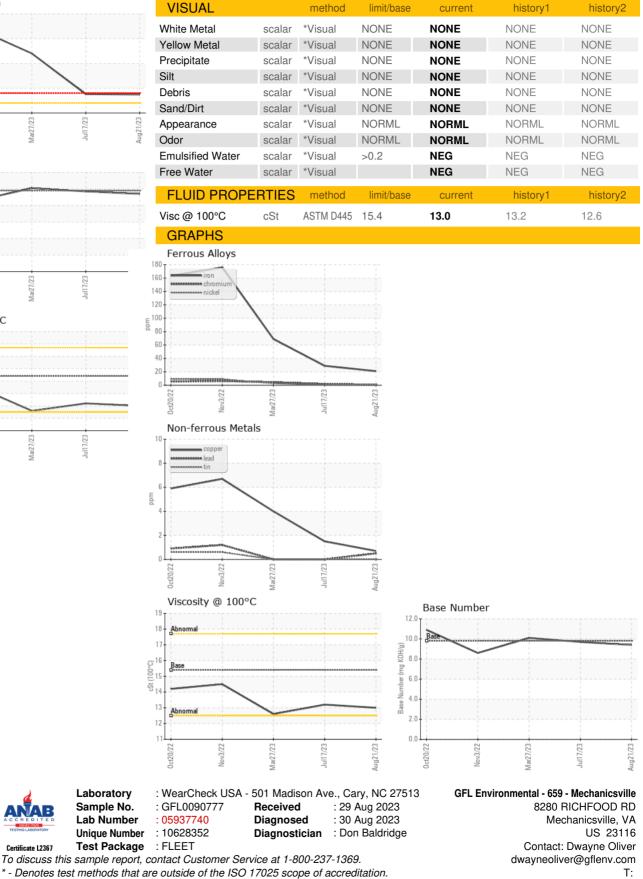
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Nov3/22

Mar27/23

OIL ANALYSIS REPORT





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

F: