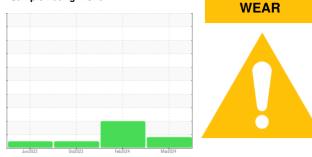


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 729090 Component **Diesel Engine** Fluid

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

		•,	Jun202	3 Oct2023	Feb2024 M	ar2024	
	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
1	Sample Number		Client Info		GFL0097857	GFL0097800	GFL0085302
is recommended at this time. t service interval to monitor.	Sample Date		Client Info		21 Mar 2024	12 Feb 2024	09 Oct 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		496	600	600
am shaft wear is indicated.	Oil Changed		Client Info		N/A	Changed	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
n of any contamination in the	CONTAMINATI	ON	method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
tes that there is suitable n the oil. The condition of the he time in service.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	6	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>80	A 84	9 0	34
	Chromium	ppm	ASTM D5185m	>5	2	3	1
	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>30	9	6	6
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>150	2	3	2
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	2	3	2
	Barium	ppm	ASTM D5185m		0	0	12
	Molybdenum	ppm	ASTM D5185m	60	56	64	60
	Manganese	ppm	ASTM D5185m	0	<1	1	<1
	Magnesium	ppm	ASTM D5185m	1010	961	951	963
	Calcium	ppm	ASTM D5185m	1070	1023	1049	1019
	Phosphorus	ppm	ASTM D5185m	1150	916	1002	961
	Zinc	ppm	ASTM D5185m	1270	1196	1186	1213
	Sulfur	ppm	ASTM D5185m	2060	3454	3245	2728
	CONTAMINAN	ГS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	4	9	8
	Sodium	ppm	ASTM D5185m		53	<u> </u>	17
	Potassium	ppm	ASTM D5185m	>20	1	10	12
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.4	1.1	0.8
	Nitration	Abs/cm	*ASTM D7624		6.8	12.2	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	23.7	21.7
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.8

DIAGNOSIS Recommendation

No corrective action is Resample at the next

A Wear

Cylinder, crank, or can

Contamination

There is no indication oil.

Fluid Condition

The BN result indicate alkalinity remaining in oil is acceptable for the

Oxidation

21.8

7.6

15.2

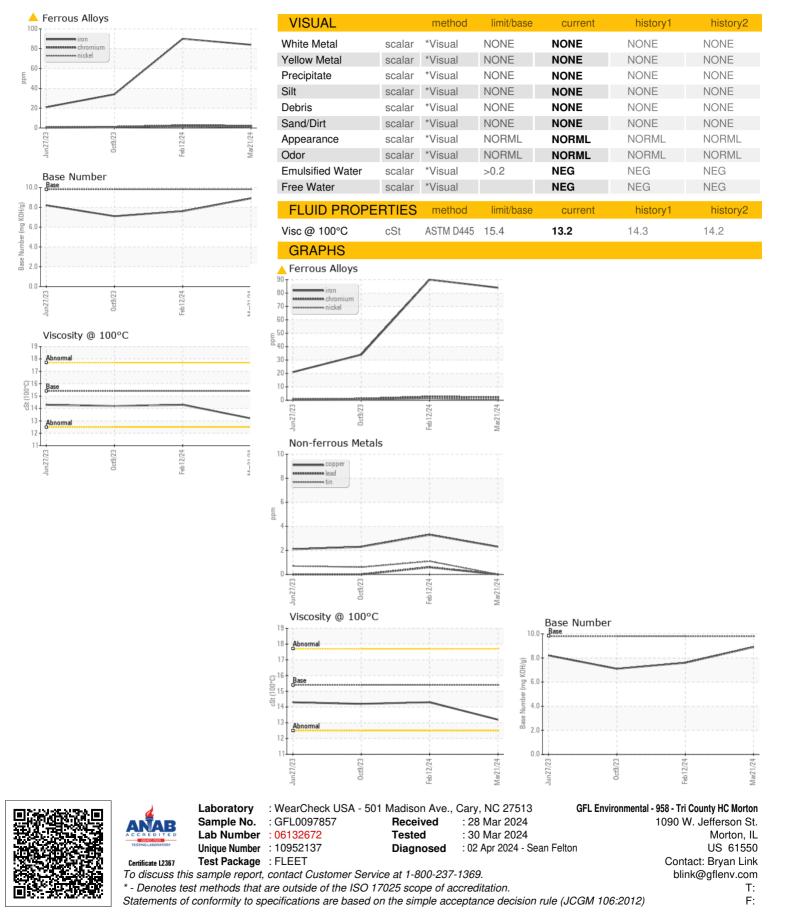
8.9

19.4

7.1



OIL ANALYSIS REPORT



Submitted By: Also GFL958,958A, 958B - Bryan Link