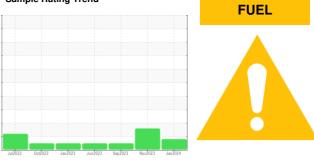


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 729076 Component **Diesel Engine** Fluid

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

DIAGNOSIS	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0097483	GFL0097475	GFL0092919
No corrective action is recommended at this time.	Sample Date		Client Info		05 Jan 2024	28 Nov 2023	08 Sep 2023
Resample at the next service interval to monitor.	Machine Age h	irs	Client Info		13138	12931	12379
Wear	Oil Age h	Irs	Client Info		129725	129725	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				MARGINAL	ABNORMAL	NORMAL
Light fuel dilution occurring. No other contaminants were detected in the oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
The BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	WEAR METALS		method	limit/base	current	history1	history2
	lron p	pm	ASTM D5185m	>80	13	13	17
	Chromium p	pm	ASTM D5185m	>5	0	<1	<1
	Nickel p	pm	ASTM D5185m	>2	0	0	0
	Titanium p	pm	ASTM D5185m		0	0	0
	Silver p	pm	ASTM D5185m	>3	0	0	0
	Aluminum p	pm	ASTM D5185m	>30	1	<1	5
	Lead p	pm	ASTM D5185m	>30	<1	0	<1
	-		ASTM D5185m	>150	<1	6	1
	Tin p	pm	ASTM D5185m	>5	0	0	<1
	Vanadium p	pm	ASTM D5185m		0	0	<1
	Cadmium p	pm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	pm	ASTM D5185m	0	4	5	7
	Barium p	pm	ASTM D5185m	0	0	0	0
	Molybdenum p	pm	ASTM D5185m	60	55	63	61
	Manganese p	pm	ASTM D5185m	0	0	0	<1
	Magnesium p	pm	ASTM D5185m	1010	886	983	975
	Calcium p	pm	ASTM D5185m	1070	1019	1163	1196
	Phosphorus p	pm	ASTM D5185m	1150	878	1046	998
			ASTM D5185m	1270	1229	1332	1286
	Sulfur p	pm	ASTM D5185m	2060	2673	3038	3520
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon p	pm	ASTM D5185m	>20	3	3	6
		pm	ASTM D5185m		6	5	7
	Potassium p		ASTM D5185m		2	0	3
	Fuel %	6	ASTM D3524	>5	<u> </u>	4 .7	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot % %	6	*ASTM D7844	>3	0.4	0.2	0.4
			*ASTM D7624		9.6	10.0	9.3
			*ASTM D7415		19.9	20.3	18.4
	FLUID DEGRADA			limit/base		history1	history2
			*ASTM D7414	>25	17.7	16.7	15.3
				~		10.7	10.0

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

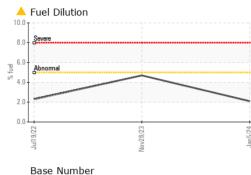
6.7

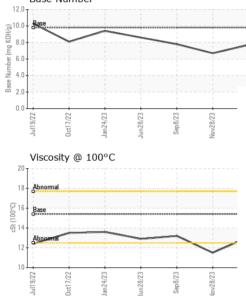
7.7

7.8

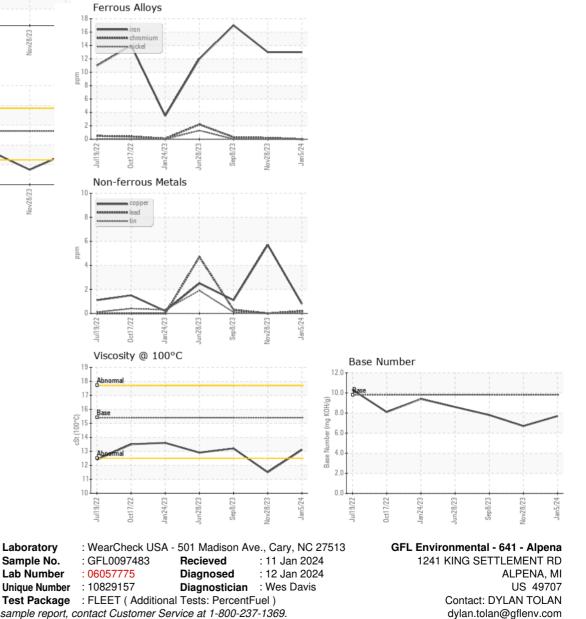


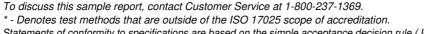
OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	1 1.5	13.2
GRAPHS						





Certificate L2367

F:

T: (989)854-7203