

OIL ANALYSIS REPORT

Sample Rating Trend FUEL

Component **Diesel Engine** Elui

PETRO CANADA DURON SHP 15W40 (22 LTR)

DIAGNOSIS

Machine Id 801027

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

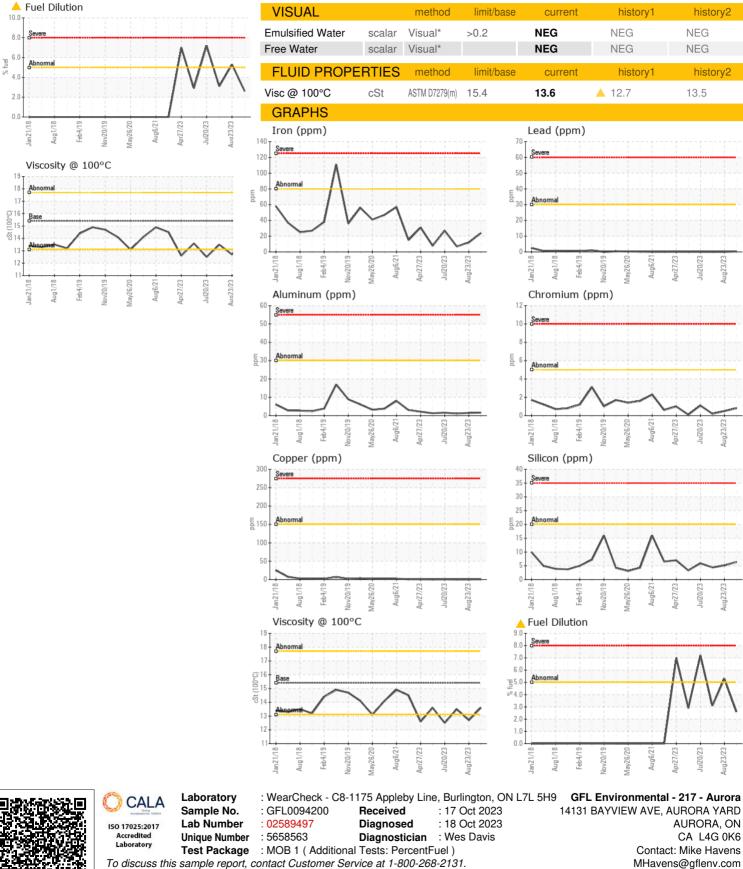
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094200	GFL0086509	GFL
Sample Date		Client Info		12 Oct 2023	23 Aug 2023	15 Aug 2023
Machine Age	hrs	Client Info		139415	139415	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				MARGINAL	ABNORMAL	MARGINAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	24	12	7
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	2	1
Lead	ppm	ASTM D5185(m)	>30	<1	0	0
Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	6	6	9
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	57	57
-	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	953	912	924
Calcium	ppm	ASTM D5185(m)	1070	1067	1013	1025
Phosphorus	ppm	ASTM D5185(m)	1150	995	1015	1029
Zinc	ppm	ASTM D5185(m)	1270	1194	1131	1136
Sulfur	ppm	ASTM D5185(m)	2060	2385	2425	2544
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	6	5	4
Sodium	ppm	ASTM D5185(m)		14	9	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	<mark>/</mark> 2.6	▲ 5.3	▲ 3.1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	11.0	8.9	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	20.5	19.4
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	16.4	14.5
:10:07) Rev: 1					Submitted	By: Scott Ewan
						Dens 4 - CO



OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

> Submitted By: Scott Ewan Page 2 of 2

Apr27/23

AURORA, ON

CA L4G 0K6

F: (905)713-2445

T:

history2

history2

NEG

NEG

13.5