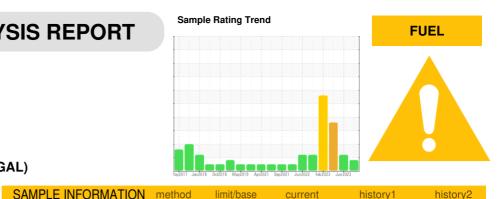


OIL ANALYSIS REPORT



Machine Id

Component **Diesel Engine**

Fluic PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

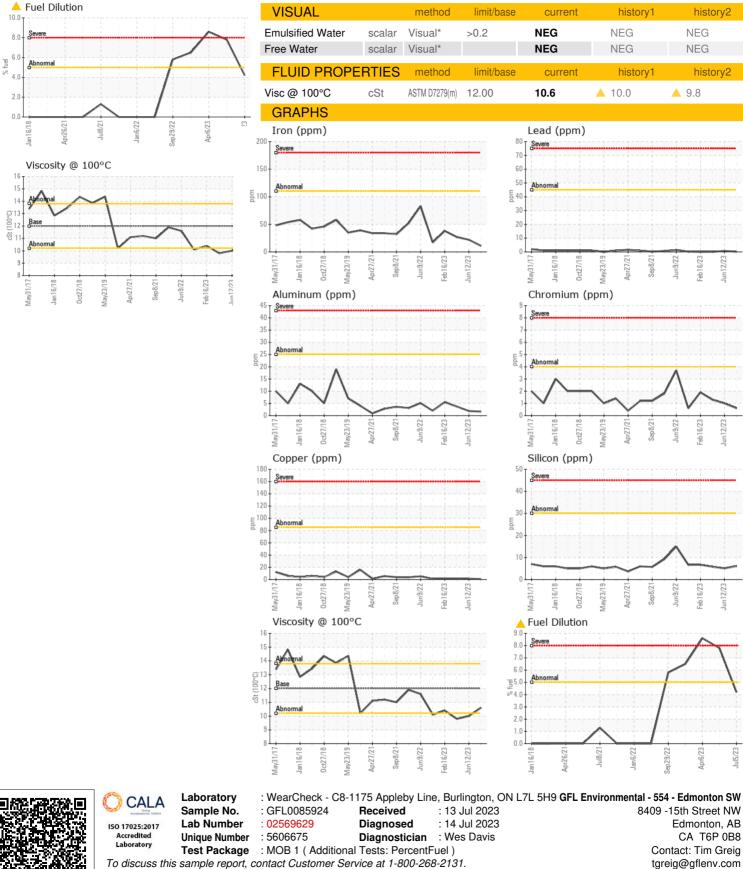
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085924	GFL0078001	GFL0077963
Sample Date		Client Info		05 Jul 2023	12 Jun 2023	06 Apr 2023
Machine Age	hrs	Client Info		18345	18184	17693
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	SEVERE
CONTAMINAT		method	limit/base	ourropt	biotopul	history?
			IIIIIVDase	current	history1	history2
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	11	22	27
Chromium	ppm	ASTM D5185(m)	>4	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	4
Lead	ppm	ASTM D5185(m)	>45	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	2	1	1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	55	60
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	936	869	870
Calcium	ppm	ASTM D5185(m)	1050	968	940	1002
Phosphorus		ASTM D5185(m)	995	1028	928	956
Zinc	ppm ppm	ASTM D5185(m)	1180	1147	1066	1066
Sulfur		,	2600	2442	2236	2337
Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	2000	2442 <1	<1	<1
	ppm	ASTIVI DOTOD(III)		<1		<
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	5	6
Sodium	ppm	ASTM D5185(m)		25	56	1 82
Potassium	ppm	ASTM D5185(m)	>20	1	2	4
Fuel	%	ASTM D7593*	>5	4.2	▲ 7.8	8.6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.1	11.0	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	25.0	21.9
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	27.1	20.3
	nuər. 111111	A01WI D7414	220	13.7		
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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.

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