

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **7824**

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101741	GFL0093916	GFL0064086
Sample Date		Client Info		26 Dec 2023	18 Sep 2023	16 Feb 2023
Machine Age	hrs	Client Info		0	22695	21726
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
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WEAR METAL		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	37	15	19
Chromium	ppm	ASTM D5185(m)	>4	3	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	1	2
Lead	ppm	ASTM D5185(m)	>45	<1	0	2
Copper	ppm	ASTM D5185(m)	>85	2	2	55
Tin	ppm	ASTM D5185(m)	>4	<1	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)	2	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	47	43	55
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	743	692	870
Calcium	ppm	ASTM D5185(m)	1050	822	750	999
Phosphorus	ppm	ASTM D5185(m)	995	785	761	961
Zinc	ppm	ASTM D5185(m)	1180	917	858	1083
Sulfur	ppm	ASTM D5185(m)	2600	2024	1875	2205
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	4	5
Sodium	ppm	ASTM D5185(m)		7	6	32
Potassium	ppm	ASTM D5185(m)	>20	1	0	1
Fuel	%	ASTM D7593*	>5	• 14.8	17.4	▲ 6.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.3	0.6	0.7
Nitration	Abs/cm	ASTM D7624*	>20	13.0	10.3	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	25.9	23.0



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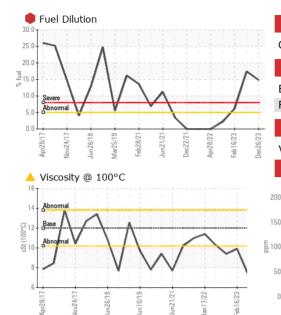
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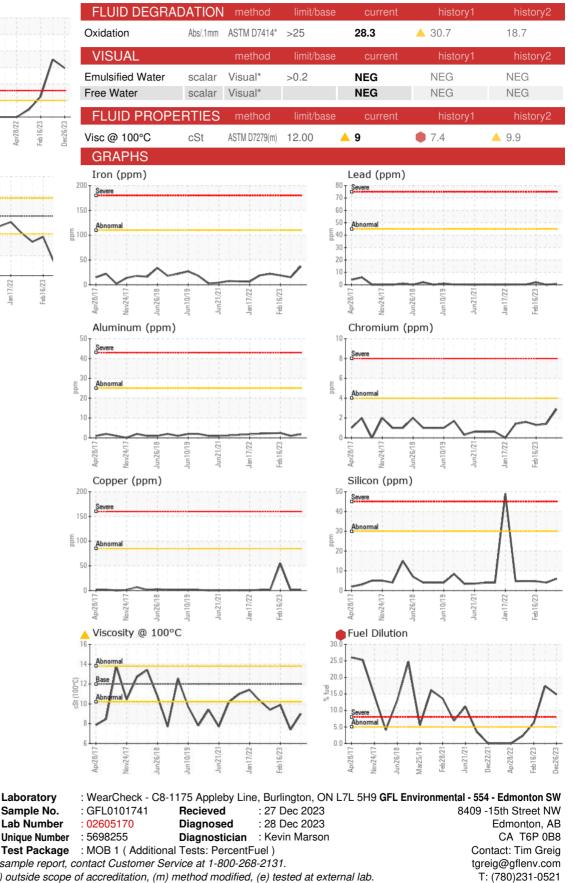
Laboratory

Sample No.

Lab Number

Unique Number





To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

F:

CALA

ISO 17025:2017 Accredited

Laboratory