

OIL ANALYSIS REPORT

Sample Rating Trend



801047 Component Diesel Engine

Machine Id

Fluid

PETRO CANADA DURON SHP 15W40 (19 LTR)

DN SHP 15W40 (19 LTR)						
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111727	WC0875082	WC0875072
Sample Date		Client Info		11 Mar 2024	22 Nov 2023	16 Nov 2023
Machine Age	hrs	Client Info		10256	9850	10045
Oil Age	hrs	Client Info		0	0	78
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	MARGINAL	ABNORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	21	4	14
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	4	2	6
Lead	ppm	ASTM D5185(m)	>30	0	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	18	37	51
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	55	58	59
Vanganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	795	871	798
Calcium	ppm	ASTM D5185(m)	1070	948	1024	1010
Phosphorus	ppm	ASTM D5185(m)	1150	845	957	918
Zinc	ppm	ASTM D5185(m)	1270	1029	1143	1085
Sulfur	ppm	ASTM D5185(m)	2060	2315	2538	2328
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	6	3	4
Sodium	ppm	ASTM D5185(m)		6	3	5
Potassium	ppm	ASTM D5185(m)	>20	4	1	9
Fuel	%	ASTM D7593*	>5	A 8.5	▲ 3.4	▲ 6.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	11.7	5.4	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	18.6	20.8

DIAGNOSIS Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

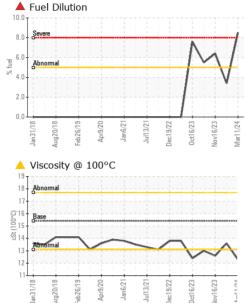
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

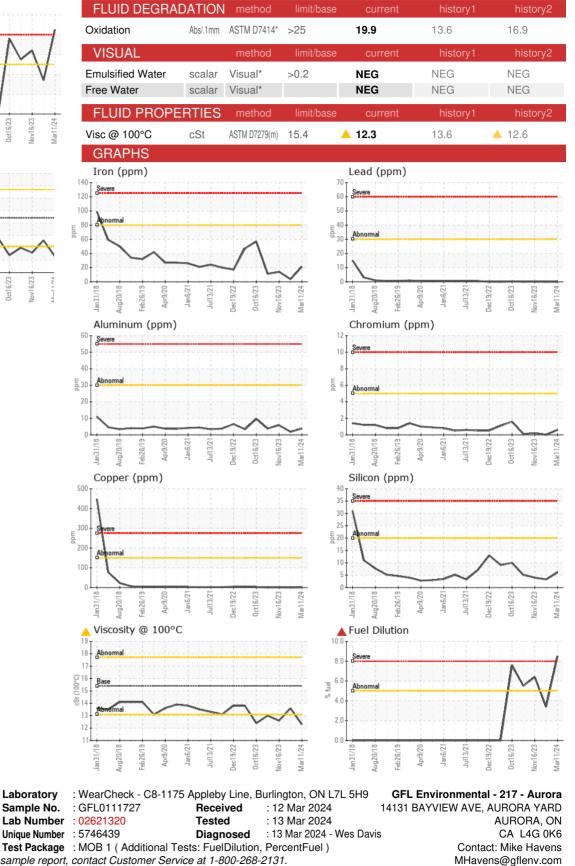
Fluid Condition

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



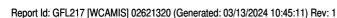
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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Scott Ewan



CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

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T: