

OIL ANALYSIS REPORT

Sample Rating Trend



Fluid PETRO CANADA 15W40 (38 LTR)

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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.

Area

Machine Id 4474 Component Diesel Engine

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.

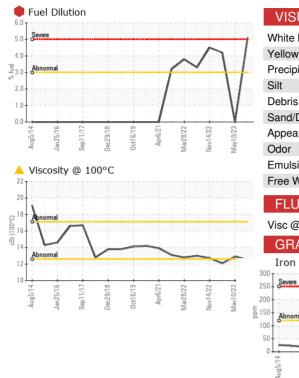
Fluid Condition

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

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085876	GFL0081572	GFL0071077
Sample Date		Client Info		29 Aug 2023	10 May 2023	08 Mar 2023
Machine Age	hrs	Client Info		31671	31065	30210
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	10	4	7
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	3	1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Antimony	ppm	ASTM D5185(m)		<1	<1	<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	2	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		56	56	56
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		919	916	910
Calcium	ppm	ASTM D5185(m)		970	1046	1048
Phosphorus	ppm	ASTM D5185(m)		985	1047	1035
Zinc	ppm	ASTM D5185(m)		1103	1138	1130
Sulfur	ppm	ASTM D5185(m)		2415	2561	2541
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Sodium	ppm	ASTM D5185(m)		1	1	1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel	%	ASTM D7593*	>3.0	9 5.1	<1.0	4.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>5	0.8	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.8	5.8	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	18.7	21.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	13.0	14.5
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400

300

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(100°C) 100°C

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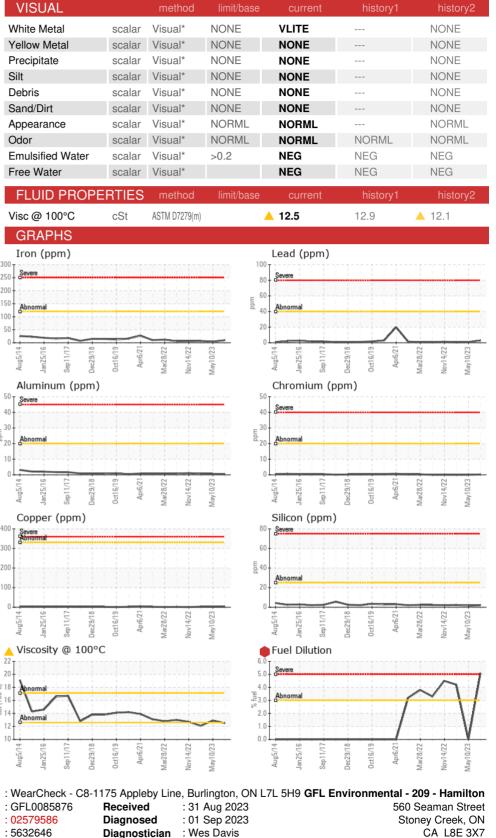
Laboratory

Sample No.

Lab Number

Unique Number

10



Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual) 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.

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