

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **7177** Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (21 LTR)

Sample Number Sample Date Machine Age		Client Info Client Info		GFL0088945	GFL0088927	GFL006107
Machine Age		Client Info				
-				28 Aug 2023	02 Aug 2023	09 Mar 2023
	hrs	Client Info		0	16484	15909
Dil Age	hrs	Client Info		0	15909	53
Dil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>130	15	39	8
Chromium	ppm	ASTM D5185(m)	>10	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Fitanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	1
_ead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>125	<1	2	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
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)	0	4	4	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Volybdenum	ppm	ASTM D5185(m)	60	58	57	57
Vanganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Vagnesium	ppm	ASTM D5185(m)	1010	928	928	933
Calcium	ppm	ASTM D5185(m)	1070	1009	988	1053
Phosphorus	ppm	ASTM D5185(m)	1150	1021	1007	1050
Zinc	ppm	ASTM D5185(m)	1270	1140	1147	1144
Sulfur	ppm	ASTM D5185(m)	2060	2441	2246	2587
₋ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	6	3
Sodium	ppm	ASTM D5185(m)		6	7	4
Potassium	ppm	ASTM D5185(m)	>20	2	5	<1
Fuel	%	ASTM D7593*	>3.0	6.4	9.9	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.8	0
litration	Abs/cm	ASTM D7624*	>20	11.1	14.4	6.0
vitration			>30	21.8	26.3	19.6
	Abs/.1mm	ASTM D7415*	>30		20.0	10.0
Nitration Sulfation FLUID DEGRA			limit/base		history1	history2

All component wear rates are normal.

condition. Wear

DIAGNOSIS Recommendation

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

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

Fluid Condition

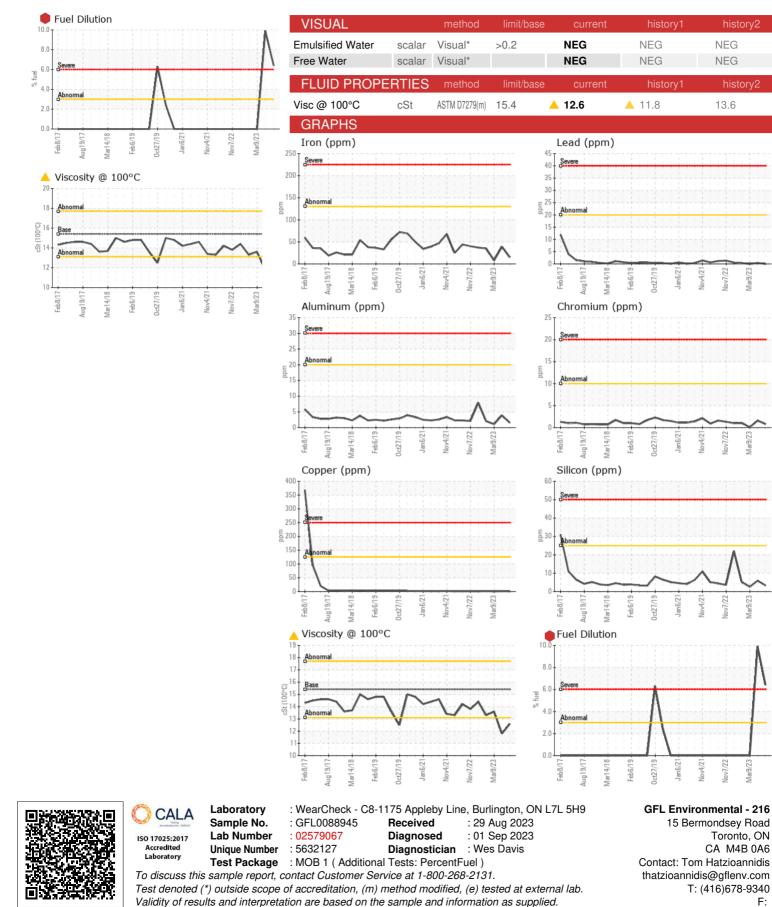
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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