

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 701047

Component **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

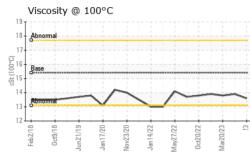
AL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085686	GFL0077313	GFL0059841
Sample Date		Client Info		07 Sep 2023	16 Jun 2023	20 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	9	12	9
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	1	1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)		1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
Beryllium Cadmium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
	ppm	()		-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	3	2
Barium Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)		0	0 58	0 57
Manganese	ppm ppm	ASTM D5185(m)	60 0	56 <1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	943	945	909
Calcium	ppm	ASTM D5185(m)		1003	1013	1081
Phosphorus	ppm	ASTM D5185(m)	1150	1017	1020	1038
Zinc	ppm	ASTM D5185(m)	1270	1163	1155	1163
Sulfur	ppm	ASTM D5185(m)	2060	2450	2334	2448
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	4
- ··	ppm	ASTM D5185(m)		2	2	2
		ASTM D5185(m)	>20	<1	<1	<1
Potassium	ppm	()				
		method	limit/base		history1	history2
Soot %	%	method ASTM D7844*	>3	1.7	0.4	0.1
Potassium INFRA-RED Soot % Nitration	% Abs/cm	method ASTM D7844* ASTM D7624*	>3 >20	1.7 16.5	0.4 10.0	0.1 8.3
Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method ASTM D7844* ASTM D7624* ASTM D7415*	>3 >20 >30	1.7 16.5 23.2	0.4 10.0 20.8	0.1 8.3 20.8
Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm DATION	method ASTM D7844* ASTM D7624* ASTM D7415*	>3 >20	1.7 16.5 23.2	0.4 10.0	0.1 8.3

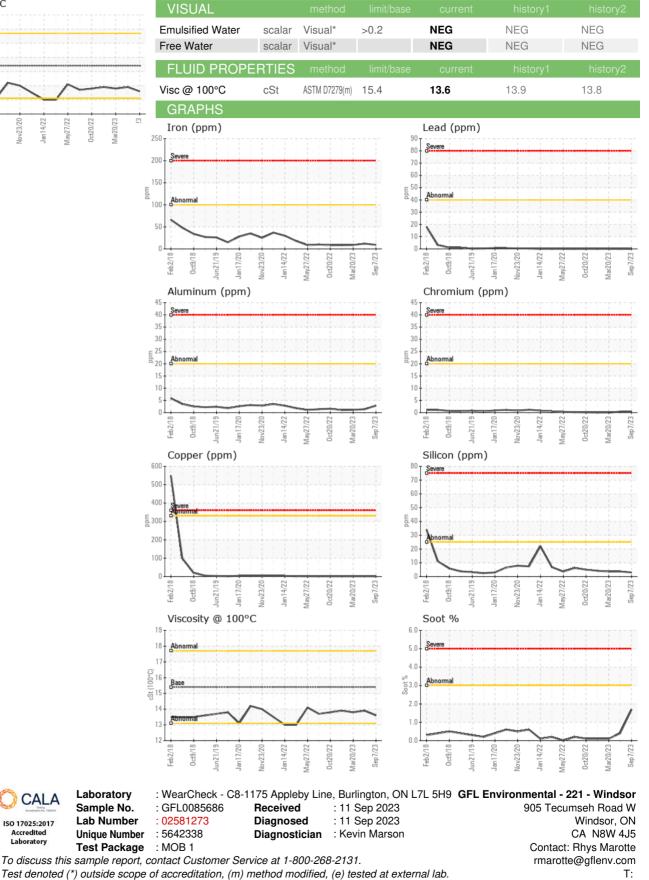
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Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited Laboratory

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