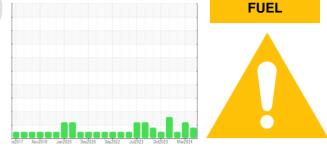


OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine PETRO CANADA DURON SHP 15W40 (22 LTR)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122291	GFL0117919	GFL010713
Sample Date		Client Info		17 Jul 2024	27 Mar 2024	18 Jan 2024
Machine Age	hrs	Client Info		12398	11833	186902
Oil Age	hrs	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				MARGINAL	ABNORMAL	NORMAL
CONTAMINAT	ION	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
Iron	ppm	ASTM D5185(m)	>80	30	23	11
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	3	2
Lead	ppm	ASTM D5185(m)		0	0	0
Copper	ppm	ASTM D5185(m)		1	<1	<1
Tin	ppm	ASTM D5185(m)		0	0	0
Antimony	ppm	ASTM D5185(m)		<1	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	5	8	14
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	56	57
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	893	871	901
Calcium	ppm	ASTM D5185(m)	1070	1010	962	1017
Phosphorus	ppm	ASTM D5185(m)	1150	963	887	965
Zinc	ppm	ASTM D5185(m)	1270	1134	1083	1121
Sulfur		ASTM D5185(m)	2060	2313	2203	2673
Lithium	ppm ppm	ASTM D5185(m)	2000	<1	<1	<1
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>20	8	7	6
O a alla sea	ppm	ASTM D5185(m)		52	33	7
Soaium		ASTM D5185(m)	>20	3	3	2
	maa					—
Sodium Potassium Fuel	ppm %	ASTM D5165(III) ASTM D7593*	>5	<u> </u>	A 7.5	<1.0
Potassium						
Potassium Fuel INFRA-RED	%	ASTM D7593*	>5 limit/base	2.2 current	▲ 7.5 history1	history2
Potassium Fuel		ASTM D7593* method ASTM D7844*	>5 limit/base >3	2 .2	▲ 7.5	<1.0 history2 0 6.1

DIAGNOSIS

Recommendation

The oil change at the time of sampling has bee noted. Resample at the next service interval to monitor. No other corrective action is recomme at this time.

Machine Id 701027

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contamin were detected in the oil.

Fluid Condition

The condition of the oil is acceptable for the tim service.



SAbs

40

E 21

SqP 20

OIL ANALYSIS REPORT

limit/base

limit/base

>25

>0.2

current

current

23.3

NEG

history1

history1

22.4

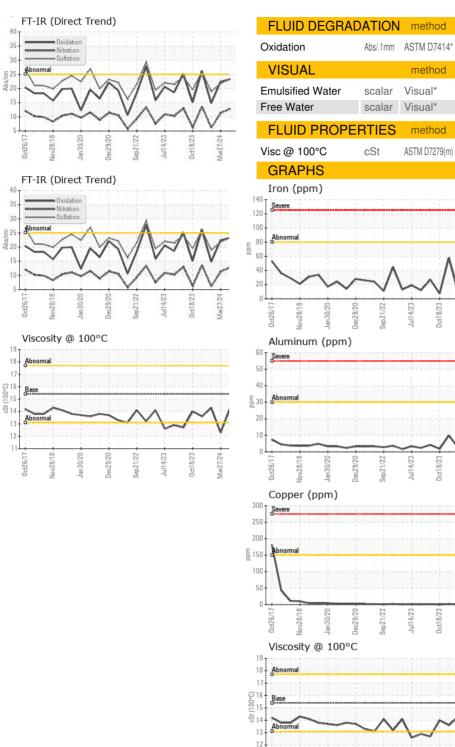
NEG

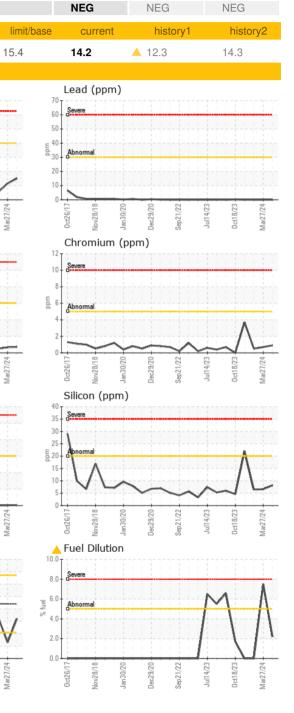
history2

history2

14.8

NEG





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0122291 Received : 18 Jul 2024 Lab Number : 02648631 Tested : 19 Jul 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5814183 Diagnosed : 19 Jul 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: PercentFuel) 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.

w28/1

Dct26/1

ul14/23

Aar77/10/

Pc/6/24

en21/22

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON CA L4G 0K6 Contact: Mike Havens MHavens@gflenv.com T: F: (905)713-2445

Report Id: GFL217 [WCAMIS] 02648631 (Generated: 07/19/2024 09:30:08) Rev: 1

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Submitted By: Scott Ewan
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