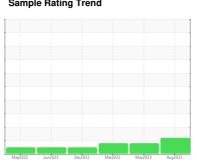


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**FUEL** 



Machine Id **228003** 

Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

### **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

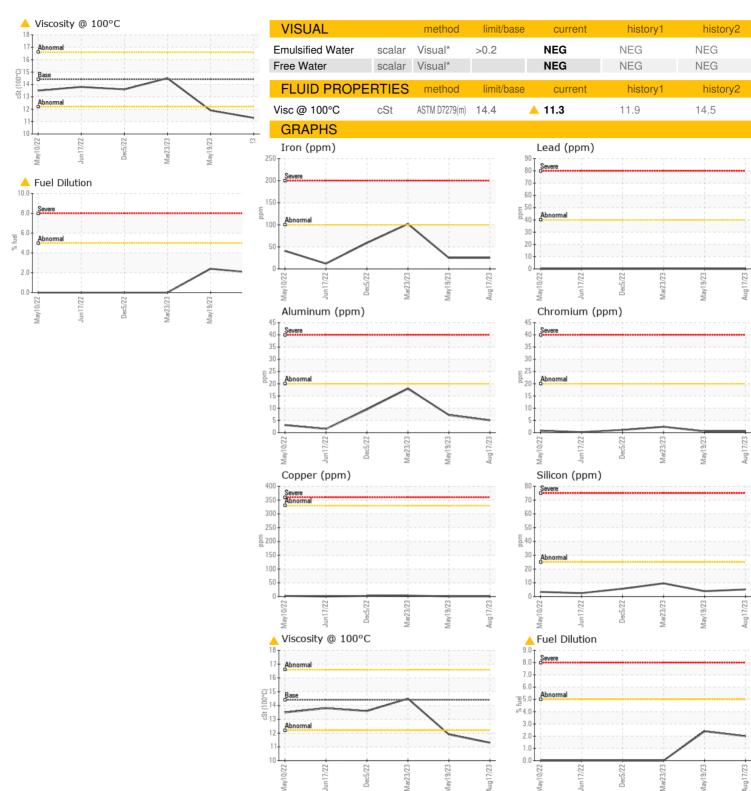
### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

		May2022	Jun2022 Dec2022	Mar2023 May2023	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090846	GFL0082574	GFL0063912
Sample Date		Client Info		17 Aug 2023	19 May 2023	23 Mar 2023
Machine Age	kms	Client Info		197795	184179	6914
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	25	25	<b>▲</b> 102
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	7	18
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	4
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
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)	250	27	70	5
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	42	58	65
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)	450	497	432	983
Calcium	ppm	ASTM D5185(m)	3000	1664	1785	1189
Phosphorus	ppm	ASTM D5185(m)	1150	807	1110	1092
Zinc	ppm	ASTM D5185(m)	1350	896	1192	1254
Sulfur	ppm	ASTM D5185(m)	4250	2111	2834	2377
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	10
Sodium	ppm	ASTM D5185(m)	>158	2	1	2
Potassium	ppm	ASTM D5185(m)	>20	4	4	13
Fuel	%	ASTM D7593*	>5	<u>^</u> 2	<u>^</u> 2.4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	10.0	8.9	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	21.7	19.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor : GFL0090846 Received : 18 Aug 2023 : 02576645 Diagnosed : 21 Aug 2023 : 5629705 Diagnostician : Wes Davis

**Test Package**: MOB 1 (Additional Tests: FuelDilution, 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.

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009