



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
R24027

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0100592	---	---
Sample Date	Client Info		17 Jan 2024	---	---
Machine Age	kms	Client Info	0	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	26	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >4	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	2	---	---
Lead	ppm	ASTM D5185(m) >40	16	---	---
Copper	ppm	ASTM D5185(m) >330	9	---	---
Tin	ppm	ASTM D5185(m) >15	<1	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	45	---	---
Barium	ppm	ASTM D5185(m) 10	0	---	---
Molybdenum	ppm	ASTM D5185(m) 100	36	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m) 450	556	---	---
Calcium	ppm	ASTM D5185(m) 3000	1630	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	995	---	---
Zinc	ppm	ASTM D5185(m) 1350	1182	---	---
Sulfur	ppm	ASTM D5185(m) 4250	2878	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

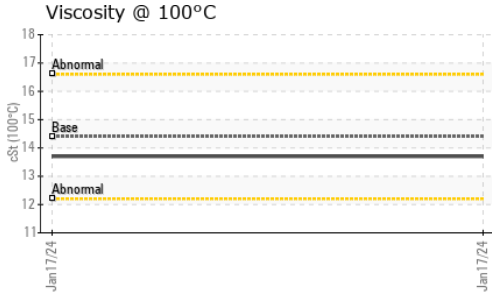
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	---	---
Sodium	ppm	ASTM D5185(m) >158	2	---	---
Potassium	ppm	ASTM D5185(m) >20	3	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.2	---	---
Nitration	Abs/cm	ASTM D7624* >20	10.7	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	23.7	---	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs./1mm ASTM D7414*	20.8	---	---

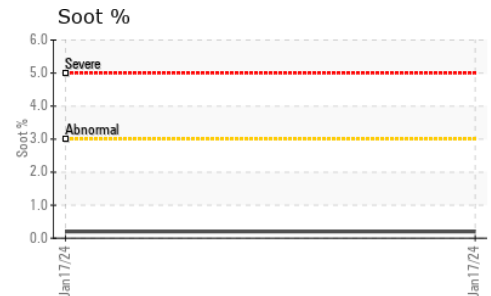
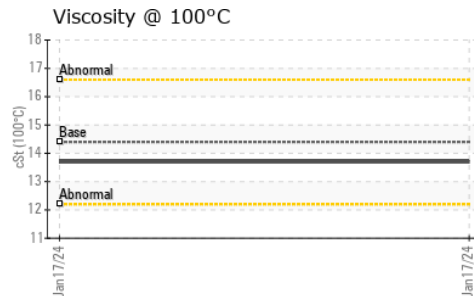
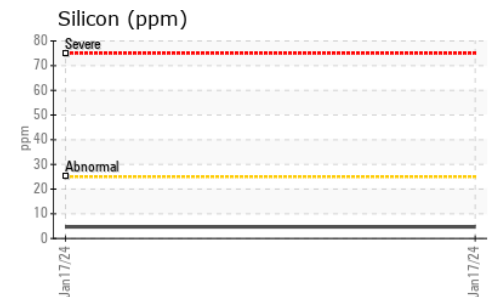
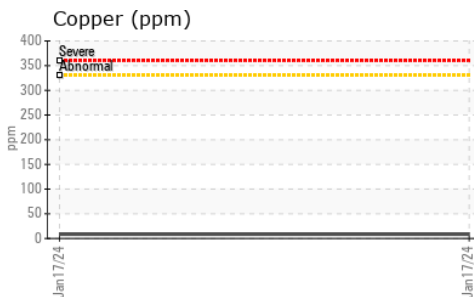
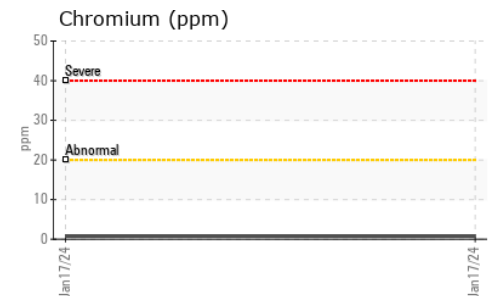
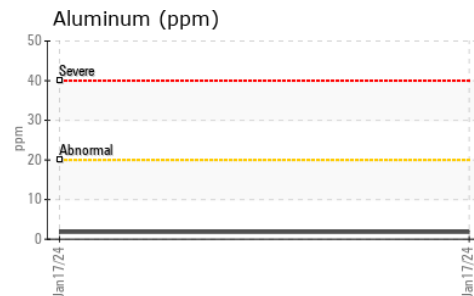
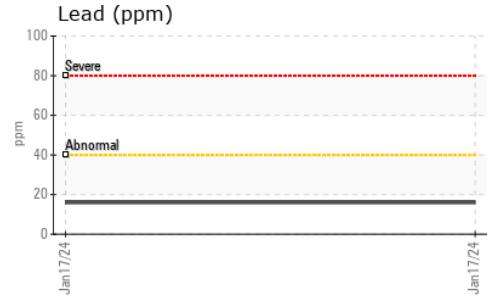
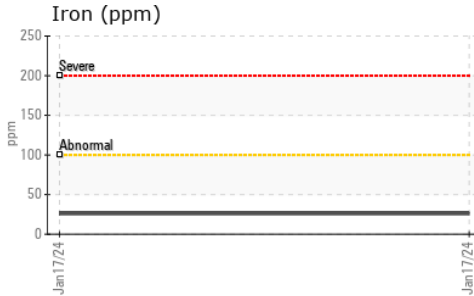
VISUAL

Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	NEG	---	---
Free Water	scalar Visual*	NEG	---	---

FLUID PROPERTIES

Method	Limit/Base	Current	History1	History2
Visc @ 100°C	cSt ASTM D7279(m)	13.7	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0100592 **Received** : 23 Jan 2024 38950 Queens Way,
Lab Number : 02610495 **Diagnosed** : 23 Jan 2024 Squamish, BC
Unique Number : 5711581 **Diagnostician** : Wes Davis CA V8B 0K8
Test Package : MOB 1 Contact: Dean Imbeau
dimbeau@gflenv.com

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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