MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
931007
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

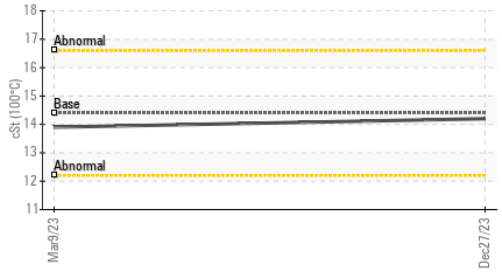
There is no indication of any contamination in the oil.

FLUID CONDITION

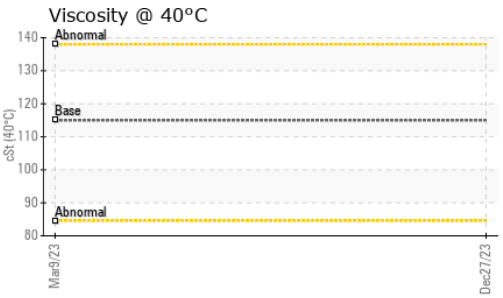
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0102930	GFL0066650	---
Sample Date		Client Info		27 Dec 2023	09 Mar 2023	---
Machine Age	kms	Client Info		3222	22120	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>120	35	35	---
Chromium	ppm	ASTM D5185(m)	>20	2	2	---
Nickel	ppm	ASTM D5185(m)	>5	2	1	---
Titanium	ppm	ASTM D5185(m)	>2	0	2	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	6	4	---
Lead	ppm	ASTM D5185(m)	>40	16	5	---
Copper	ppm	ASTM D5185(m)	>330	4	4	---
Tin	ppm	ASTM D5185(m)	>15	2	2	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>25	6	11	---
Potassium	ppm	ASTM D5185(m)	>20	9	7	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>4	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	14.0	10.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.7	21.5	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	13	13	---
Boron	ppm	ASTM D5185(m)	250	6	8	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	61	55	---
Manganese	ppm	ASTM D5185(m)		1	2	---
Magnesium	ppm	ASTM D5185(m)	450	655	600	---
Calcium	ppm	ASTM D5185(m)	3000	1762	1750	---
Phosphorus	ppm	ASTM D5185(m)	1150	813	885	---
Zinc	ppm	ASTM D5185(m)	1350	984	1001	---
Sulfur	ppm	ASTM D5185(m)	4250	2131	2026	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.7	16.0	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	114	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.2	13.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	125	---	---

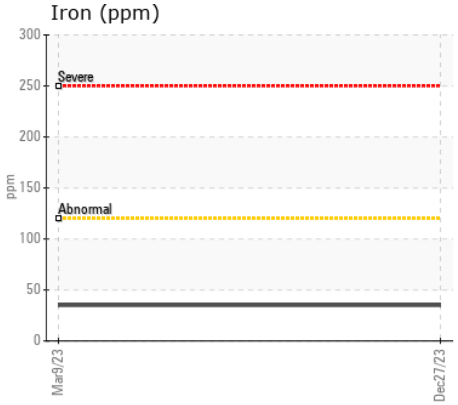
Viscosity @ 100°C



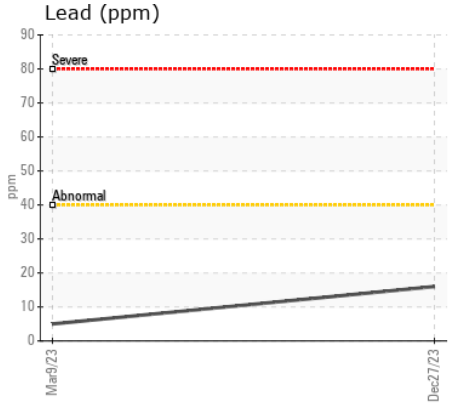
Viscosity @ 40°C



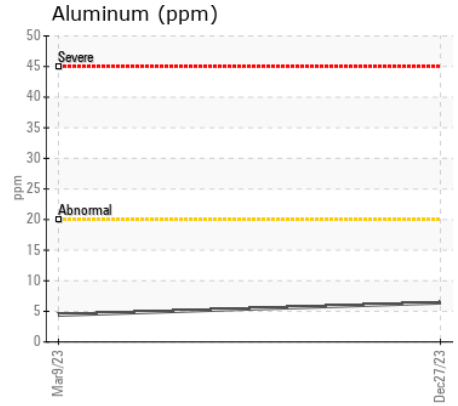
Iron (ppm)



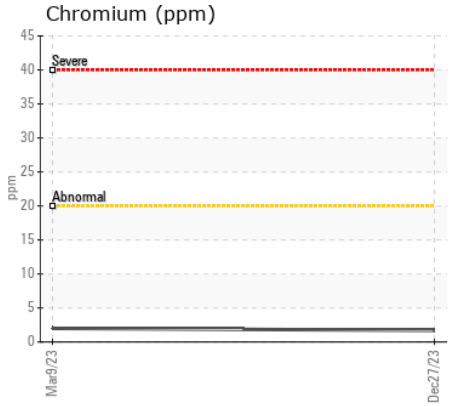
Lead (ppm)



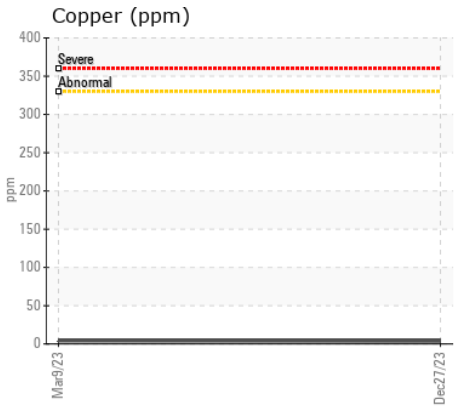
Aluminum (ppm)



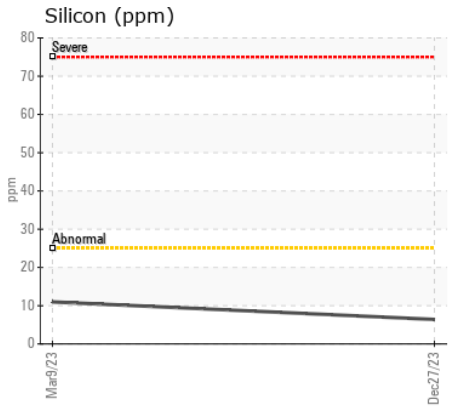
Chromium (ppm)



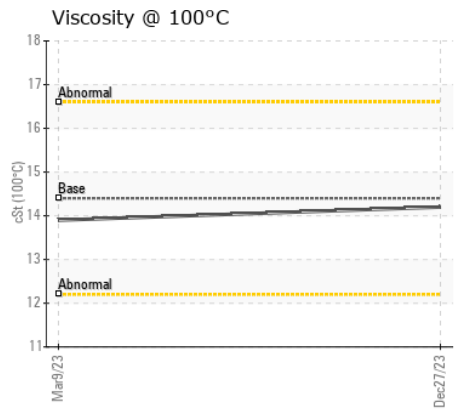
Copper (ppm)



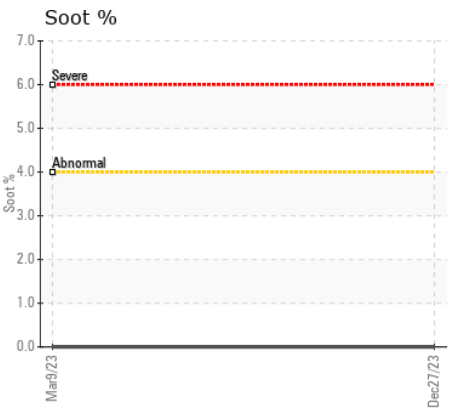
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 253 - TOR APT**
Sample No. : GFL0102930 **Recieved** : 09 Jan 2024
Lab Number : 02607358 **Diagnosed** : 09 Jan 2024
Unique Number : 5708444 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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.