MOB I LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 722054 (S/N 1FVHCYFE0NHMS5808)
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

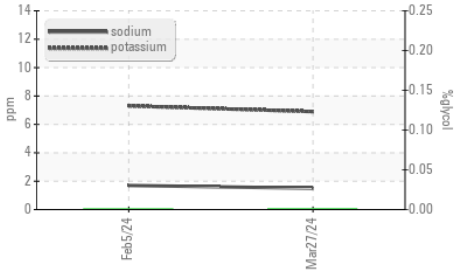
There is no indication of any contamination in the oil.

FLUID CONDITION

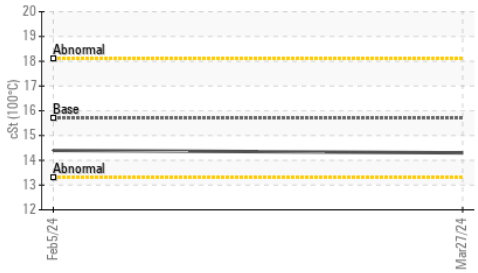
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0109556	GFL0109559	---
Sample Date		Client Info		27 Mar 2024	05 Feb 2024	---
Machine Age	kms	Client Info		3858	3613	---
Oil Age	kms	Client Info		600	600	---
Filter Age	kms	Client Info		600	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>80	6	13	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<1	2	---
Lead	ppm	ASTM D5185(m)	>30	0	0	---
Copper	ppm	ASTM D5185(m)	>150	<1	<1	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>20	<1	2	---
Potassium	ppm	ASTM D5185(m)	>20	7	7	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	0.0	---
Soot %	%	ASTM D7844*	>3	0.3	0.6	---
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	22.9	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)	35	158	134	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	10	13	14	---
Calcium	ppm	ASTM D5185(m)	2340	2150	2200	---
Phosphorus	ppm	ASTM D5185(m)	1110	935	950	---
Zinc	ppm	ASTM D5185(m)	1210	1106	1131	---
Sulfur	ppm	ASTM D5185(m)	3890	2816	2983	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	17.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	14.3	14.4	---

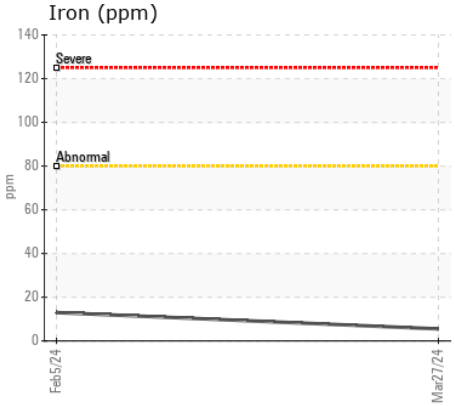
Glycol Contamination



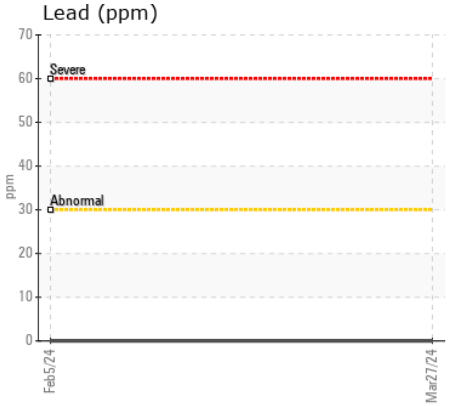
Viscosity @ 100°C



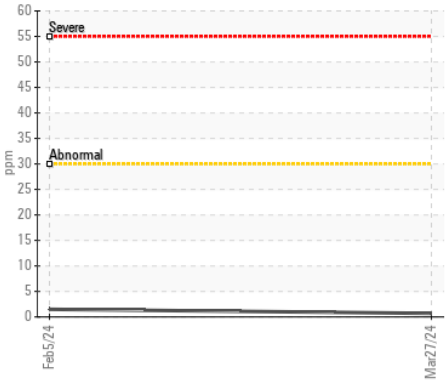
Iron (ppm)



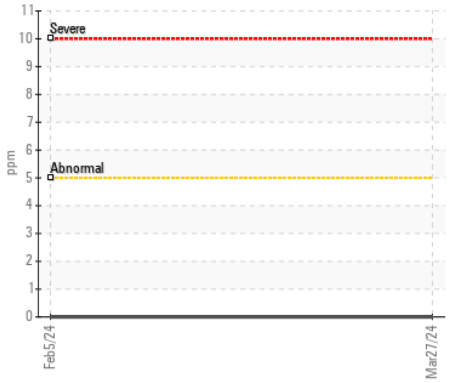
Lead (ppm)



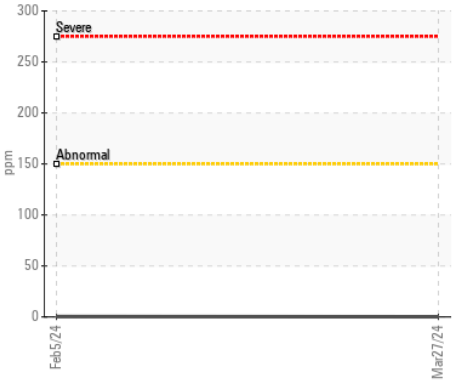
Aluminum (ppm)



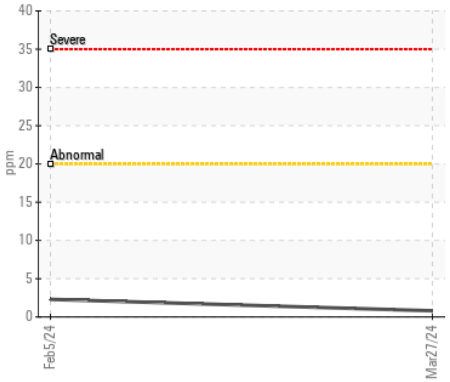
Chromium (ppm)



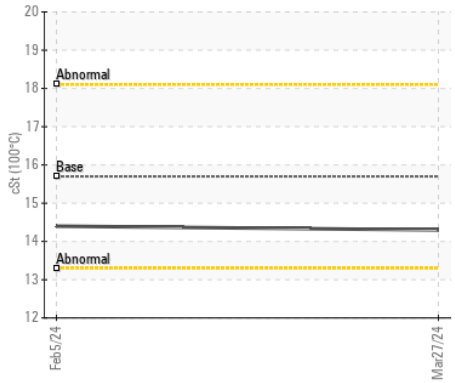
Copper (ppm)



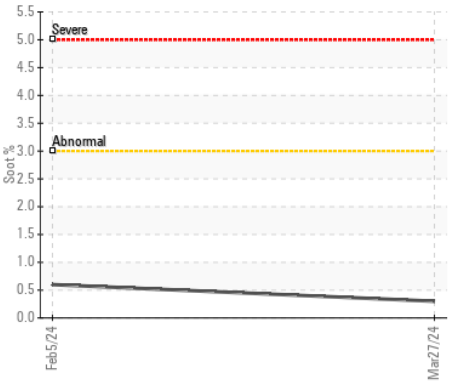
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0109556
Lab Number : 02625589
Unique Number : 5750708
Test Package : MOB 1 (Additional Tests: Glycol)

Received : 01 Apr 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 2024 - Wes Davis

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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