MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
501106
Component
Diesel Engine
Fluid
SAE 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

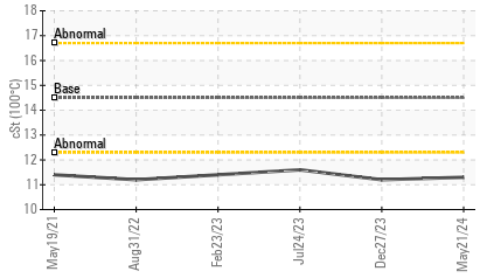
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

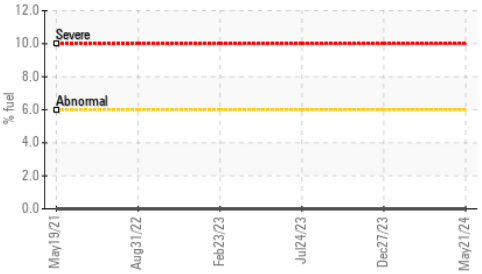
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120309	GFL0098571	GFL0079635
Sample Date		Client Info		21 May 2024	27 Dec 2023	24 Jul 2023
Machine Age	kms	Client Info		624267	504339	515142
Oil Age	kms	Client Info		0	0	61432
Filter Age	kms	Client Info		0	0	61432
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	29	31	32
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	1	1	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	4	3
Lead	ppm	ASTM D5185(m)	>40	2	2	3
Copper	ppm	ASTM D5185(m)	>330	8	6	7
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	5	5	5
Potassium	ppm	ASTM D5185(m)	>20	2	6	3
Fuel	%	ASTM D7593*	>6.0	0.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	12.5	11.4	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	23.8	22.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>401	6	5	6
Boron	ppm	ASTM D5185(m)		2	2	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		61	62	60
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		956	954	993
Calcium	ppm	ASTM D5185(m)		1157	1121	1101
Phosphorus	ppm	ASTM D5185(m)		933	954	1020
Zinc	ppm	ASTM D5185(m)		1162	1177	1212
Sulfur	ppm	ASTM D5185(m)		2166	2261	2105
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	19.5	17.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	▲ 11.3	11.2	11.6

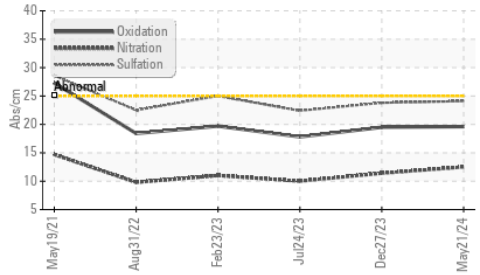
Viscosity @ 100°C



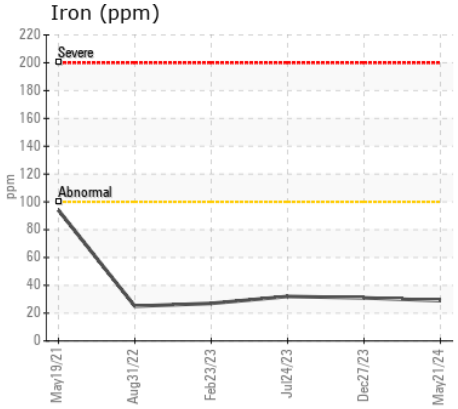
Fuel Dilution



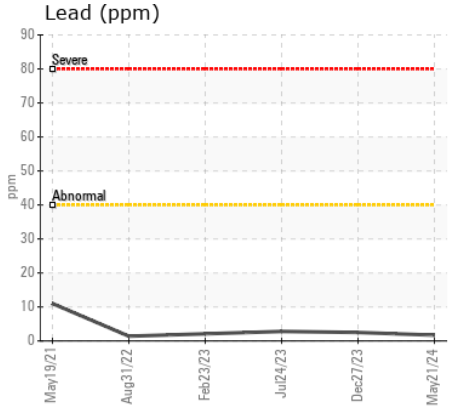
FT-IR (Direct Trend)



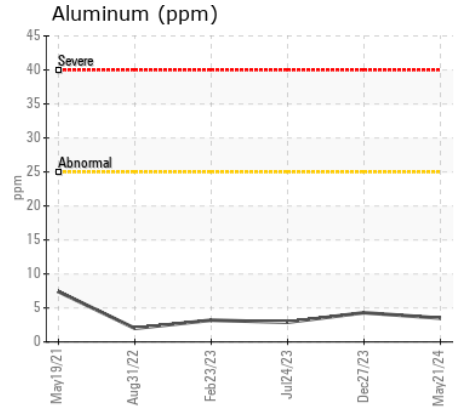
Iron (ppm)



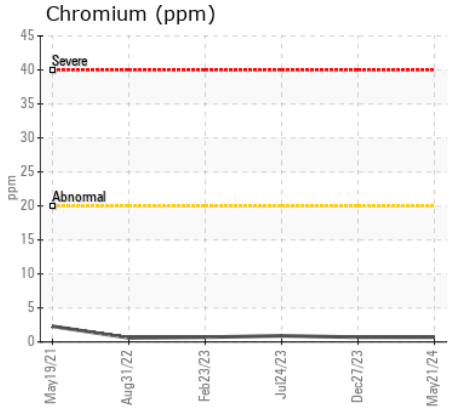
Lead (ppm)



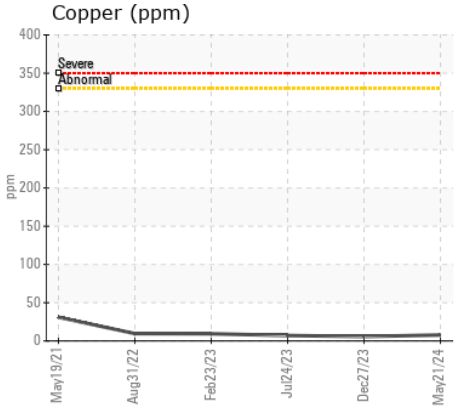
Aluminum (ppm)



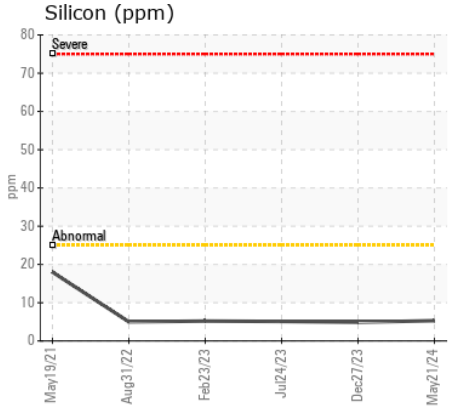
Chromium (ppm)



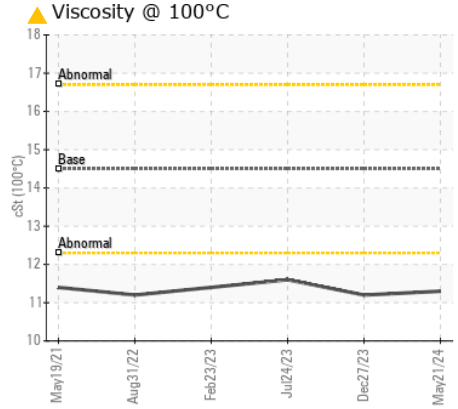
Copper (ppm)



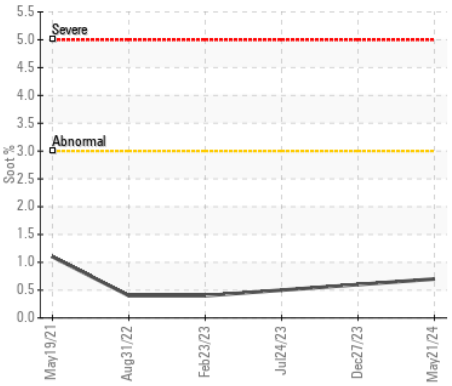
Silicon (ppm)



Viscosity @ 100°C



Soot %



CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120309
Lab Number : 02637403
Unique Number : 5786565
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received : 24 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Kevin Marson

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.

GFL Environmental - 245 - BJ Bear
2616 Cedar Creek Road
Ayr, ON
CA N0B 1E0
Contact: Erik Prpic
eprpic@gflenv.com
T: (519)570-9000
F: