MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
500528
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

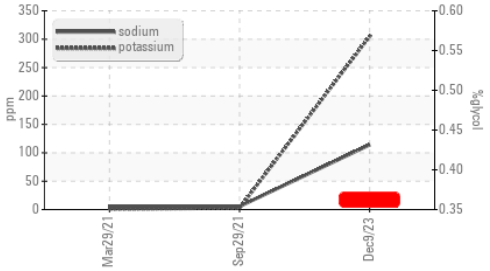
Test for glycol is positive. Light fuel dilution occurring. There is a high concentration of glycol present in the oil.

FLUID CONDITION

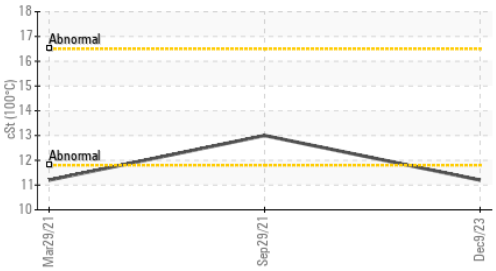
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0047666	GFL0024285	GFL0011136
Sample Date		Client Info		09 Dec 2023	29 Sep 2021	29 Mar 2021
Machine Age	hrs	Client Info		0	6702	3210
Oil Age	hrs	Client Info		0	492	600
Filter Age	hrs	Client Info		0	492	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>90	75	18	35
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	4	2
Lead	ppm	ASTM D5185(m)	>40	2	1	<1
Copper	ppm	ASTM D5185(m)	>330	31	3	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Silicon	ppm	ASTM D5185(m)	>25	15	▲ 29	▲ 29
Potassium	ppm	ASTM D5185(m)	>20	▲ 305	2	1
Fuel	%	ASTM D7593*	>3.0	▲ 1.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		⬢ 0.372	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.9	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.1	6.4	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	23.5	21.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>20	▲ 114	6	5
Boron	ppm	ASTM D5185(m)		2	270	2
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		92	105	56
Manganese	ppm	ASTM D5185(m)		<1	2	<1
Magnesium	ppm	ASTM D5185(m)		955	674	946
Calcium	ppm	ASTM D5185(m)		1016	1403	1038
Phosphorus	ppm	ASTM D5185(m)		1025	731	974
Zinc	ppm	ASTM D5185(m)		1187	838	1166
Sulfur	ppm	ASTM D5185(m)		2631	2047	2576
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	15.9	16.9
Visc @ 100°C	cSt	ASTM D7279(m)		▲ 11.2	13.0	11.2

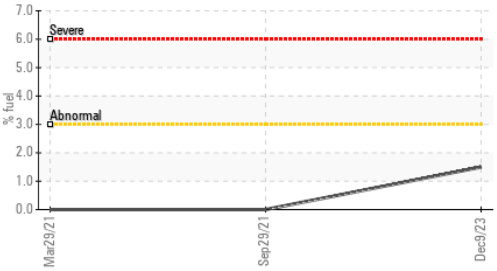
Glycol Contamination



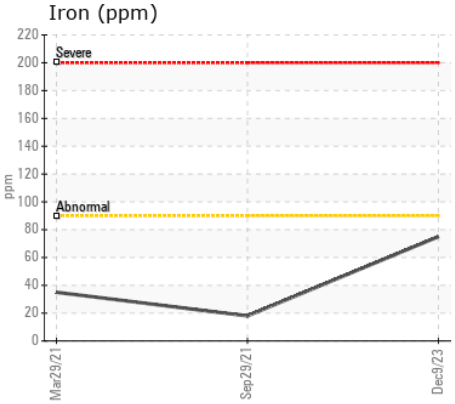
Viscosity @ 100°C



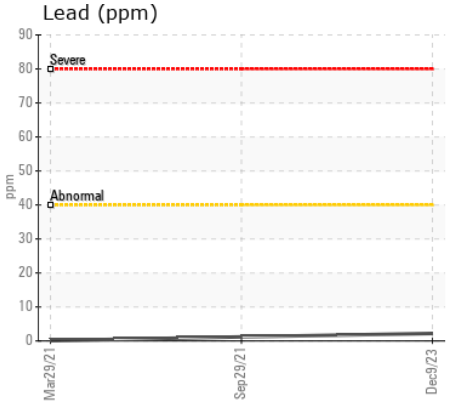
Fuel Dilution



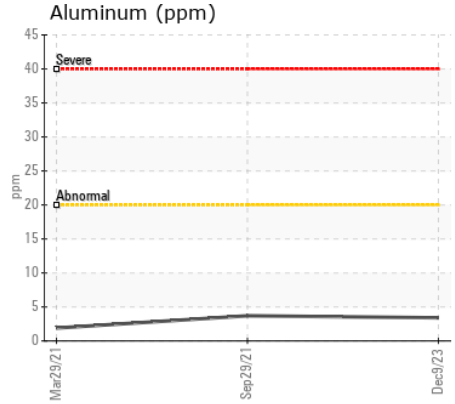
Iron (ppm)



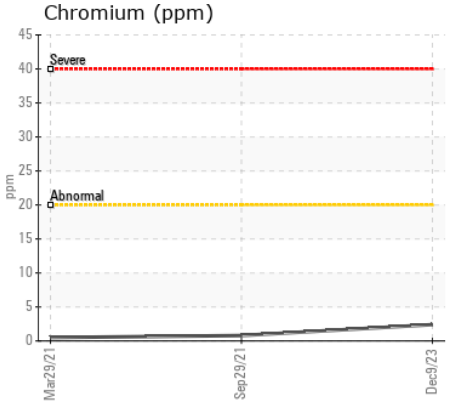
Lead (ppm)



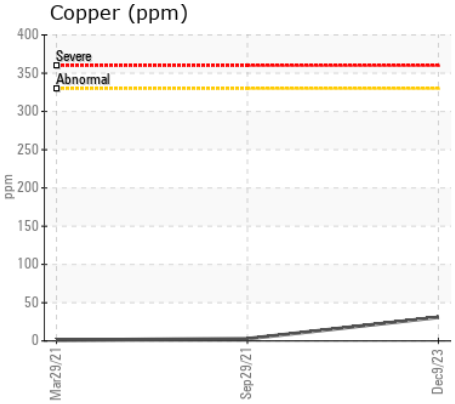
Aluminum (ppm)



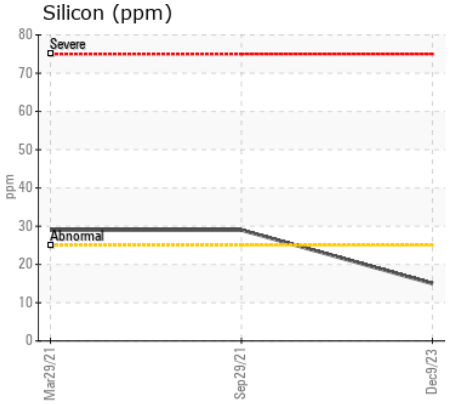
Chromium (ppm)



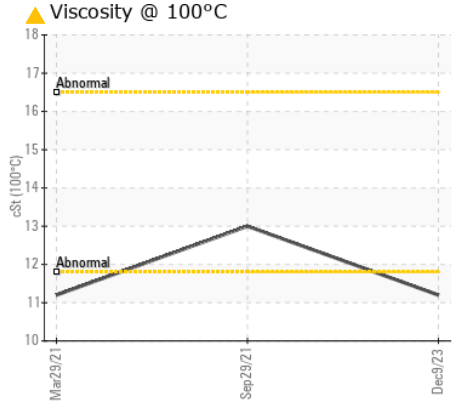
Copper (ppm)



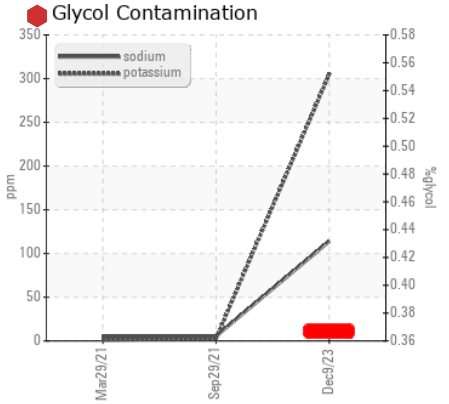
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 355 - Saskatoon**
Sample No. : GFL0047666 **Recieved** : 22 Jan 2024
Lab Number : 02610219 **Diagnosed** : 23 Jan 2024
Unique Number : 5711305 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

100 Cory Road
Saskatoon, SK
CA S7K 3J7
Contact: Ryan Polichuk
rpolichuk@gflenv.com
T: (306)244-9500
F:

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.