MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
924003
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

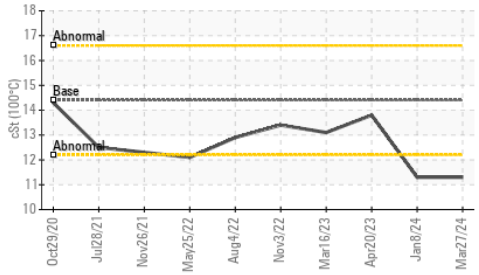
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

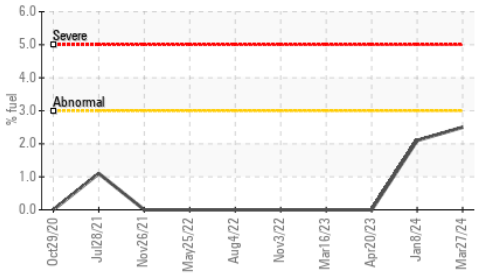
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0102865**	GFL0102871	GFL0078524
Sample Date		Client Info		**27 Mar 2024**	08 Jan 2024	20 Apr 2023
Machine Age	hrs	Client Info		**0**	0	20058
Oil Age	hrs	Client Info		**21494**	20961	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Changed
Filter Changed		Client Info		**N/A**	N/A	Changed
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>120	**17**	12	16
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**4**	6	6
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**7**	6	6
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**3**	4	9
Potassium	ppm	ASTM D5185(m)	>20	**3**	4	<1
Fuel	%	ASTM D7593*	>3.0	**2.5**	2.1	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>4	**0.5**	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	**9.4**	7.7	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.4**	22.7	17.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	**3**	3	5
Boron	ppm	ASTM D5185(m)	250	**33**	33	5
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**42**	38	57
Manganese	ppm	ASTM D5185(m)		**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	450	**478**	453	933
Calcium	ppm	ASTM D5185(m)	3000	**1654**	1624	1096
Phosphorus	ppm	ASTM D5185(m)	1150	**697**	716	1066
Zinc	ppm	ASTM D5185(m)	1350	**834**	837	1163
Sulfur	ppm	ASTM D5185(m)	4250	**1954**	2096	2649
Oxidation	Abs/.1mm	ASTM D7414*	>25	**21.4**	20.0	13.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ **11.3**	▲ 11.3	13.8

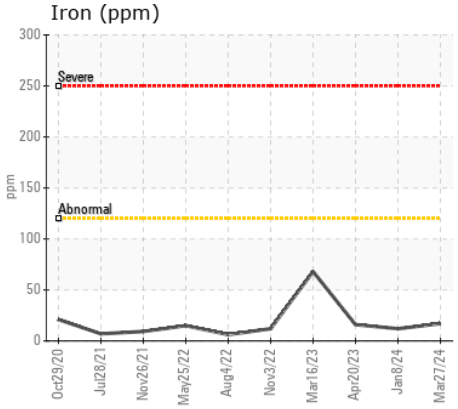
Viscosity @ 100°C



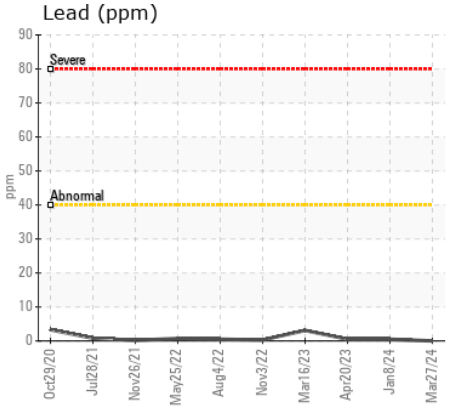
Fuel Dilution



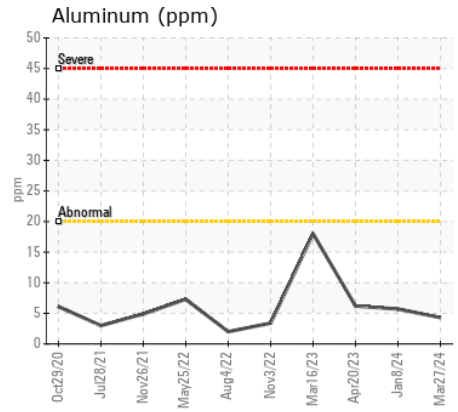
Iron (ppm)



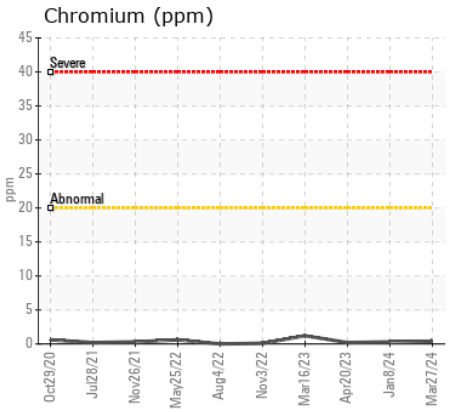
Lead (ppm)



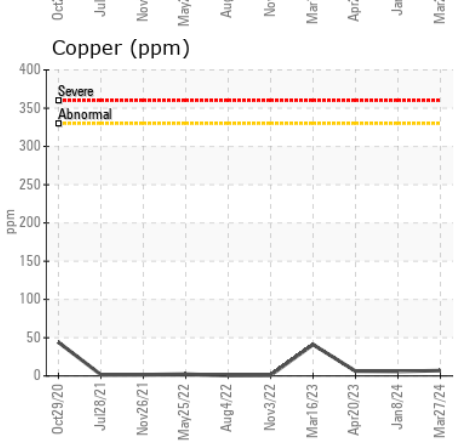
Aluminum (ppm)



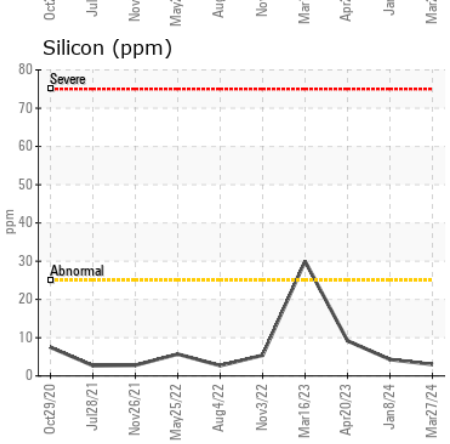
Chromium (ppm)



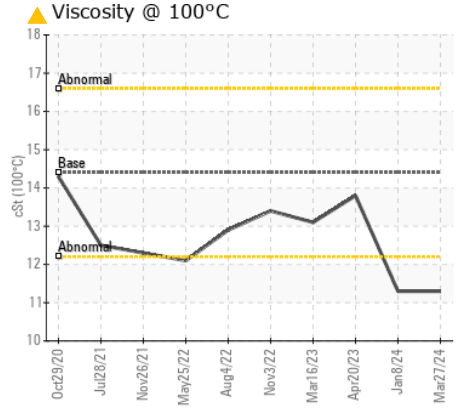
Copper (ppm)



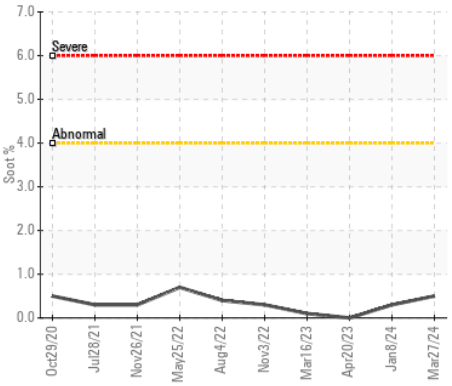
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0102865
Lab Number : 02625137
Unique Number : 5750256
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

Received : 28 Mar 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 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 - 246 - Windsor
2700 Deziel Dr
Windsor, ON
CA N8W 5H8
Contact: Dave Varga
dvarga@gflenv.com
T: (519)944-8009
F: