MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
231002
Component
Natural Gas Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

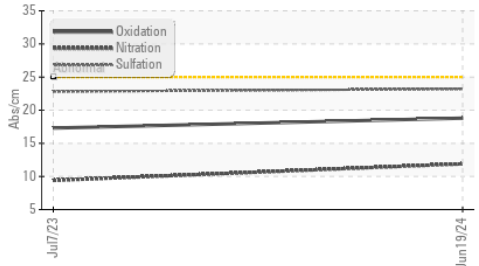
There is no indication of any contamination in the oil.

FLUID CONDITION

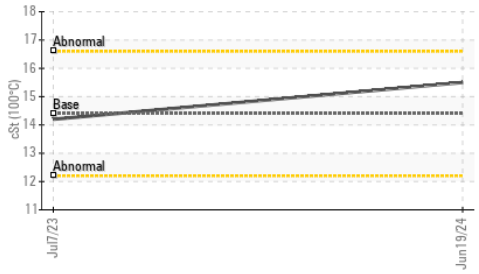
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0119236	GFL0087007	---
Sample Date		Client Info		19 Jun 2024	07 Jul 2023	---
Machine Age	hrs	Client Info		2803	1193	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>50	17	53	---
Chromium	ppm	ASTM D5185(m)	>4	3	2	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	2	3	---
Lead	ppm	ASTM D5185(m)	>30	0	1	---
Copper	ppm	ASTM D5185(m)	>35	2	11	---
Tin	ppm	ASTM D5185(m)	>4	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>+100	4	16	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	9.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	22.8	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	6	3	---
Boron	ppm	ASTM D5185(m)	250	20	20	---
Barium	ppm	ASTM D5185(m)	10	<1	1	---
Molybdenum	ppm	ASTM D5185(m)	100	62	79	---
Manganese	ppm	ASTM D5185(m)		1	6	---
Magnesium	ppm	ASTM D5185(m)	450	624	629	---
Calcium	ppm	ASTM D5185(m)	3000	1885	1327	---
Phosphorus	ppm	ASTM D5185(m)	1150	772	810	---
Zinc	ppm	ASTM D5185(m)	1350	1056	890	---
Sulfur	ppm	ASTM D5185(m)	4250	2131	2152	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	17.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.5	14.2	---

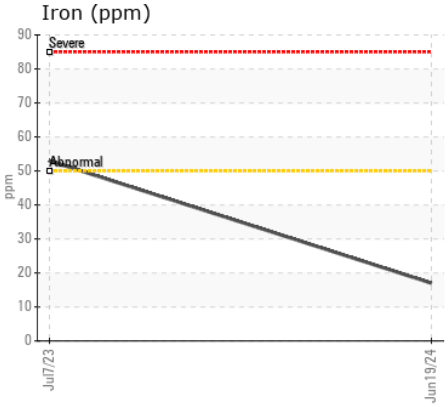
FT-IR (Direct Trend)



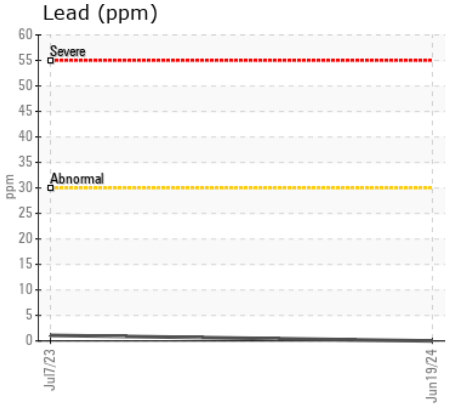
Viscosity @ 100°C



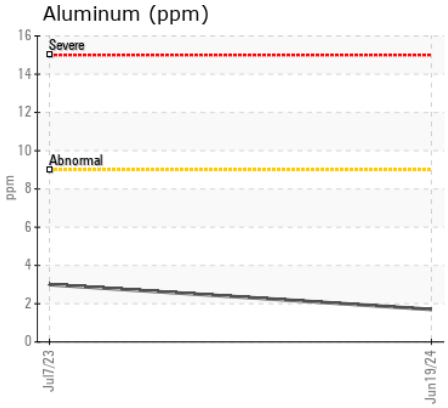
Iron (ppm)



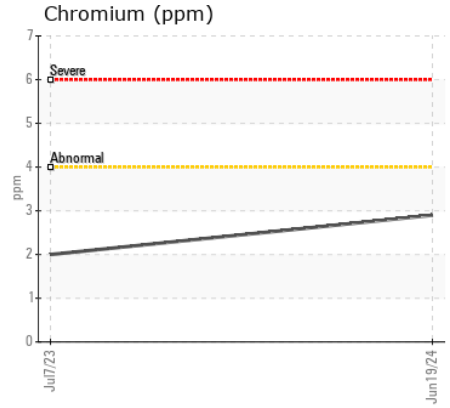
Lead (ppm)



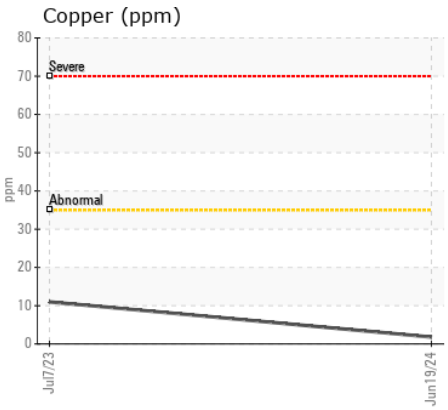
Aluminum (ppm)



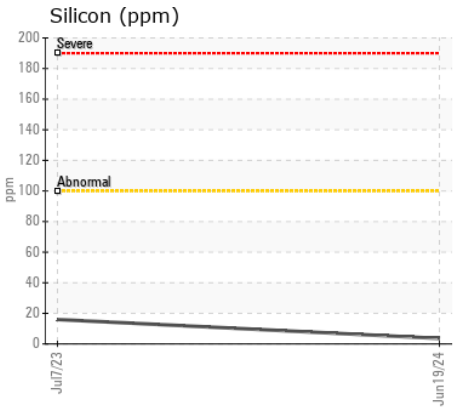
Chromium (ppm)



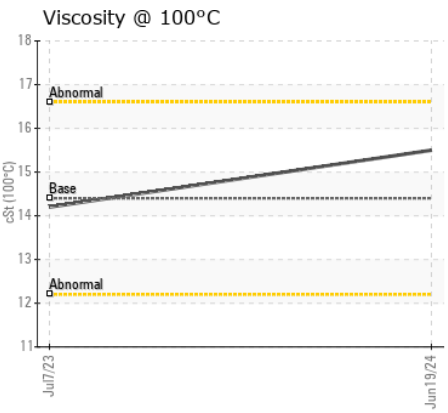
Copper (ppm)



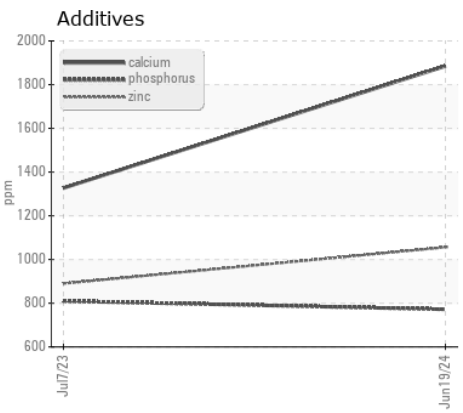
Silicon (ppm)



Viscosity @ 100°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9			**GFL Environmental - 253 - TOR APT**
Sample No.	: GFL0119236	**Received**	: 25 Jun 2024	15 Bermondsey Road - Building B
Lab Number	: 02643957	**Tested**	: 25 Jun 2024	Toronto, ON
Unique Number	: 5801496	**Diagnosed**	: 25 Jun 2024 - Wes Davis	CA M4B 1Y9
Test Package	: MOB 1 (Additional Tests: Visual)			Contact: Natalia Stalynska

To discuss this sample report, contact Customer Service at 1-800-268-2131. nstalynska@gflenv.com

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:

Validity of results and interpretation are based on the sample and information as supplied. F: