

Machine Id
351110
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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0089840	---	---
Sample Date		Client Info		01 Jul 2024	---	---
Machine Age	kms	Client Info		119487	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	60	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	7	---	---
Lead	ppm	ASTM D5185(m)	>40	12	---	---
Copper	ppm	ASTM D5185(m)	>330	4	---	---
Tin	ppm	ASTM D5185(m)	>15	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

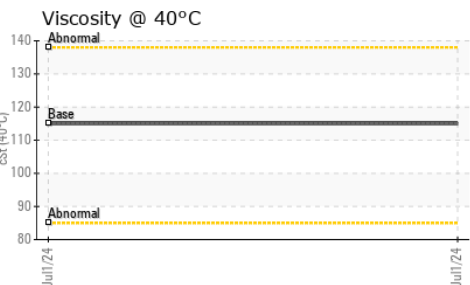
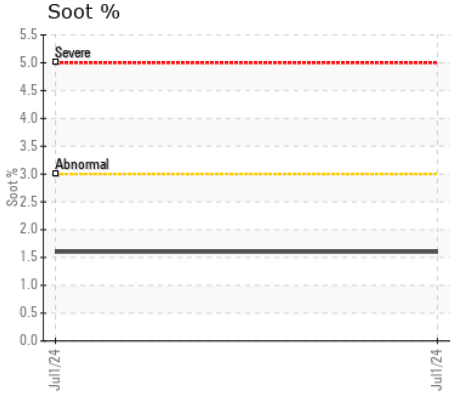
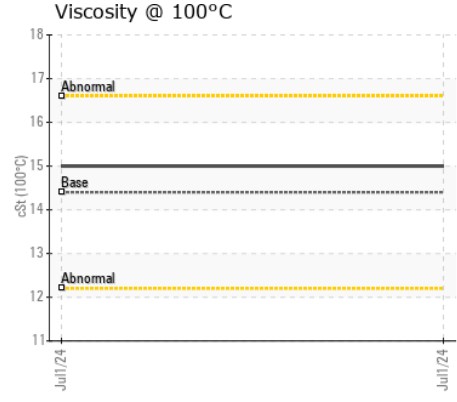
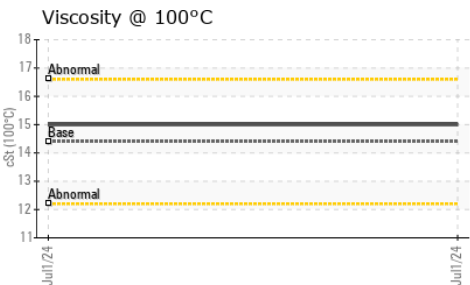
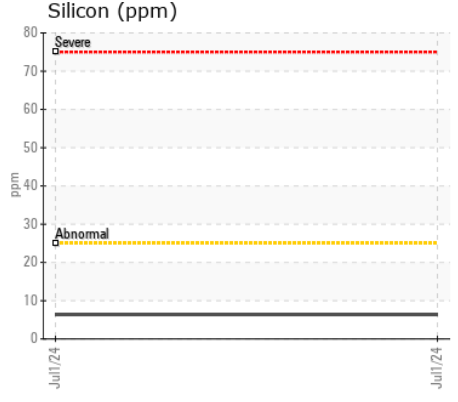
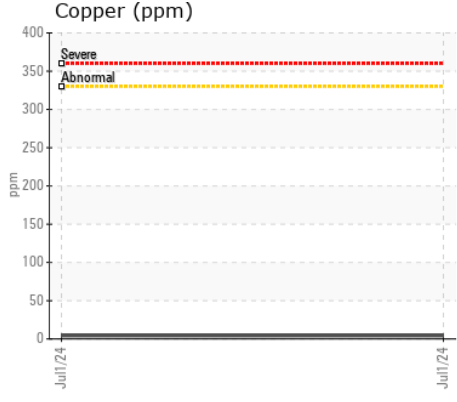
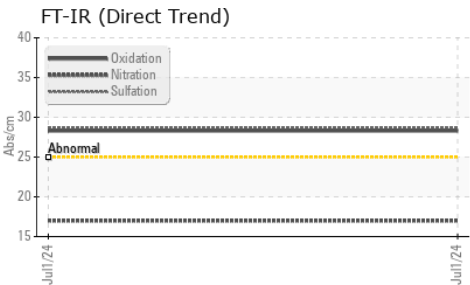
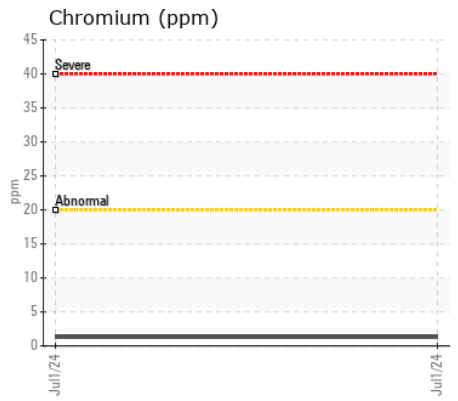
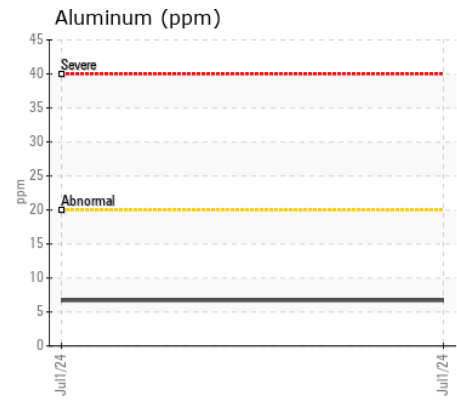
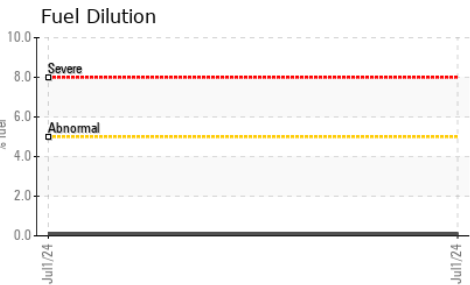
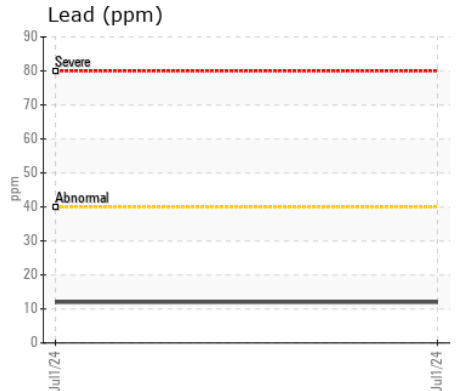
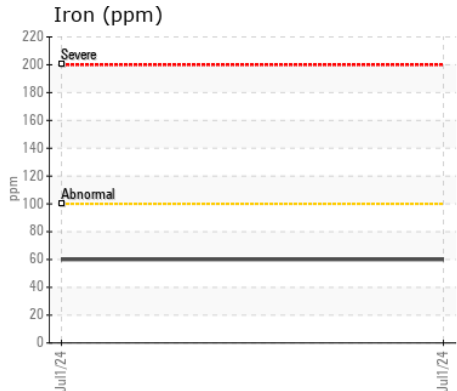
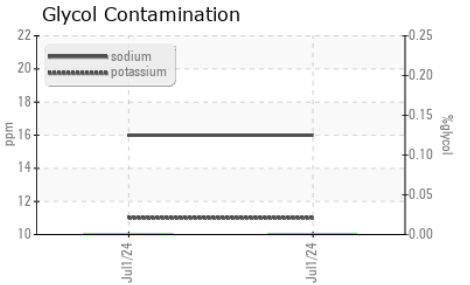
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	11	---	---
Fuel	%	ASTM D7593*	>5	0.1	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	1.6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	17.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.7	---	---
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	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	16	---	---
Boron	ppm	ASTM D5185(m)	250	2	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	62	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	450	992	---	---
Calcium	ppm	ASTM D5185(m)	3000	1112	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	978	---	---
Zinc	ppm	ASTM D5185(m)	1350	1255	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2451	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.3	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	115	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	135	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental DO NOT USE_USE GFL582**
Sample No. : GFL0089840 **Received** : 02 Jul 2024 4624 Cumberland Road
Lab Number : 02644772 **Tested** : 04 Jul 2024 Cumberland, BC
Unique Number : 5802311 **Diagnosed** : 04 Jul 2024 - Kevin Marson CA V0R 1S0
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, KV40, PercentFuel, VI, Viscosity) **Contact:** Kyle Fallowfield
 To discuss this sample report, contact Customer Service at 1-800-268-2131. kfallowfield@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: