

Machine Id
352180
Component
Diesel Engine
Fluid
DEXOS 0W20 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR

Metal levels are typical for a new component breaking in.

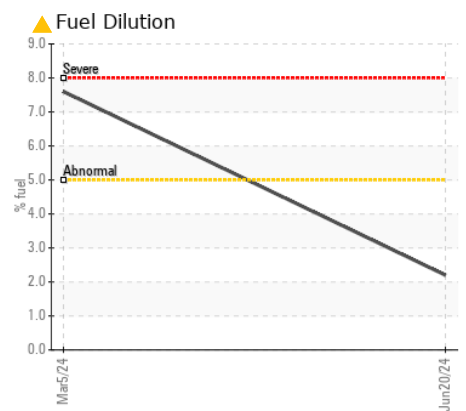
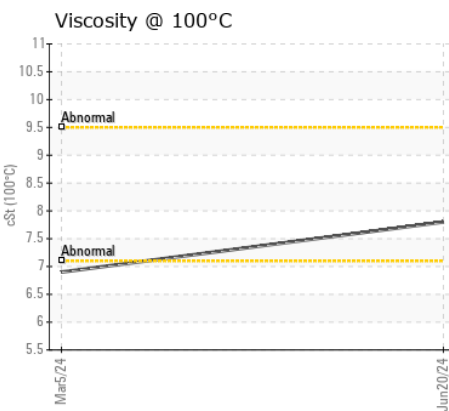
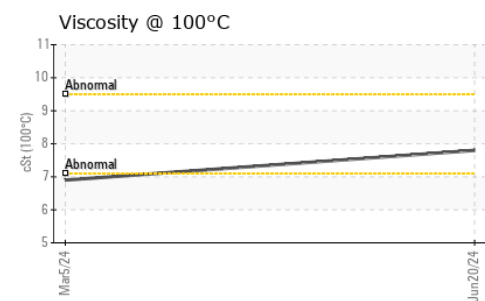
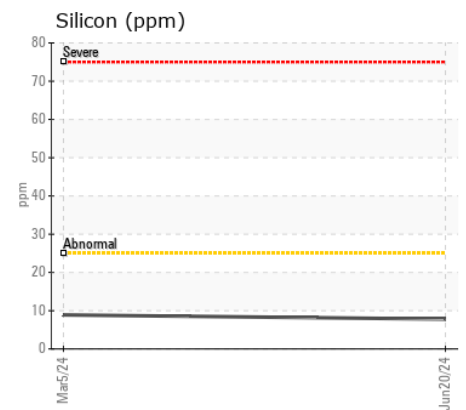
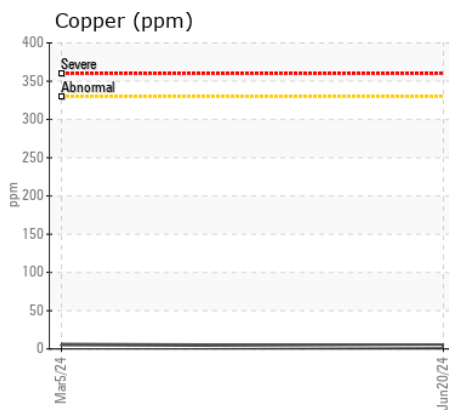
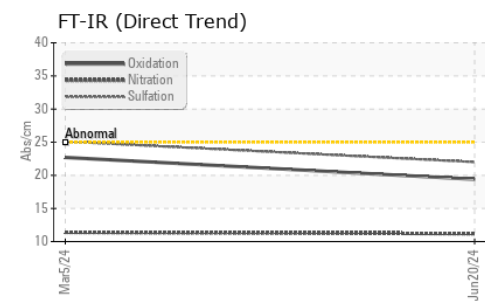
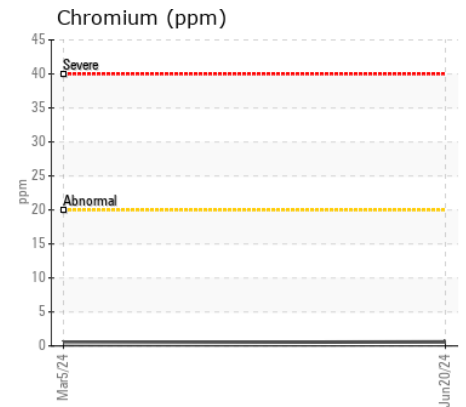
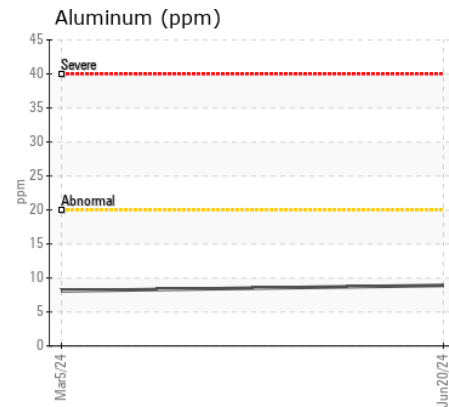
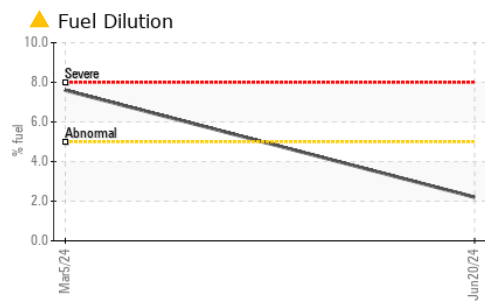
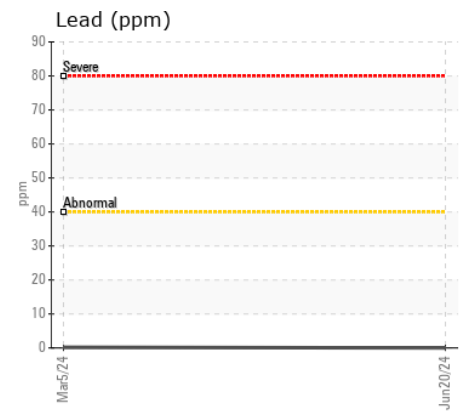
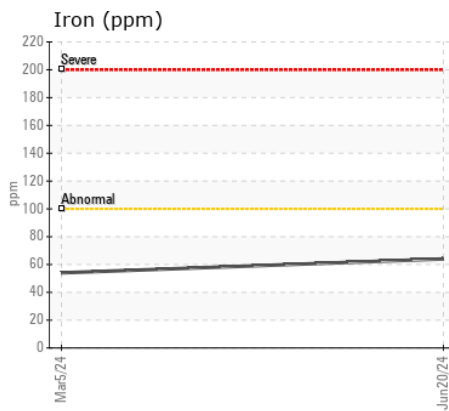
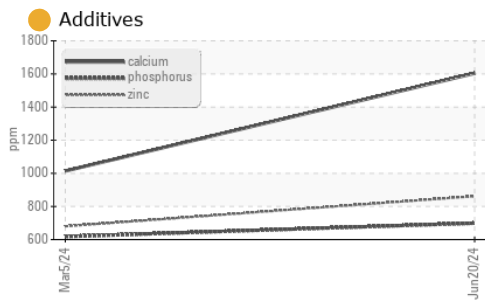
CONTAMINATION

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

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0097985	GFL0097971	---
Sample Date		Client Info		20 Jun 2024	05 Mar 2024	---
Machine Age	kms	Client Info		34545	33278	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>100	64	54	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	9	8	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	4	6	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	8	9	---
Potassium	ppm	ASTM D5185(m)	>20	2	3	---
Fuel	%	ASTM D7593*	>5	▲ 2.2	▲ 7.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.3	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	11.2	11.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	25.1	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		30	32	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		27	42	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		70	407	---
Calcium	ppm	ASTM D5185(m)		1604	1014	---
Phosphorus	ppm	ASTM D5185(m)		● 699	618	---
Zinc	ppm	ASTM D5185(m)		862	680	---
Sulfur	ppm	ASTM D5185(m)		● 1704	3226	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	22.7	---
Visc @ 100°C	cSt	ASTM D7279(m)		7.8	▲ 6.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097985 **Received** : 02 Jul 2024
Lab Number : 02644775 **Tested** : 03 Jul 2024
Unique Number : 5802314 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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.