



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[25225]

Machine Id

20-103

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941310	WC0842932	WC0744965
Sample Date		Client Info		28 Jun 2024	11 Aug 2023	07 Feb 2023
Machine Age	kms	Client Info		92148	50267	65645
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>65	12	13	22
Chromium	ppm	ASTM D5185(m)	>5	<1	1	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	9	8	14
Lead	ppm	ASTM D5185(m)	>10	<1	2	<1
Copper	ppm	ASTM D5185(m)	>180	32	79	42
Tin	ppm	ASTM D5185(m)	>8	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

## CONTAMINATION

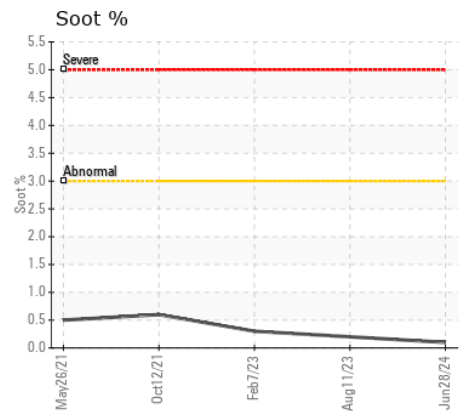
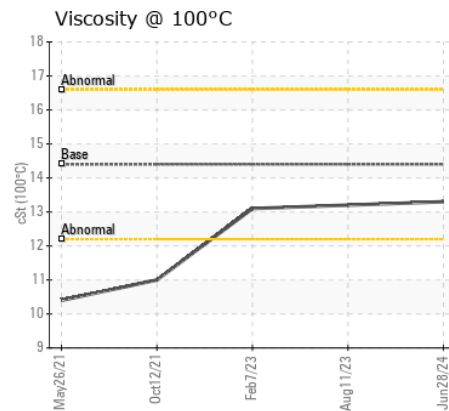
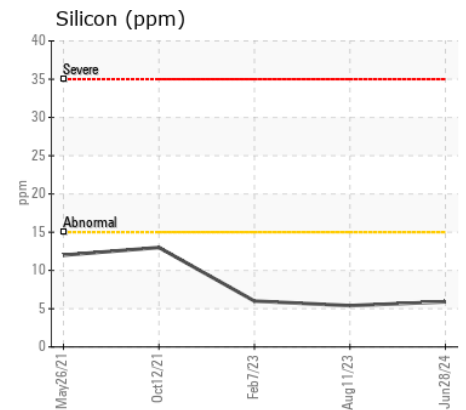
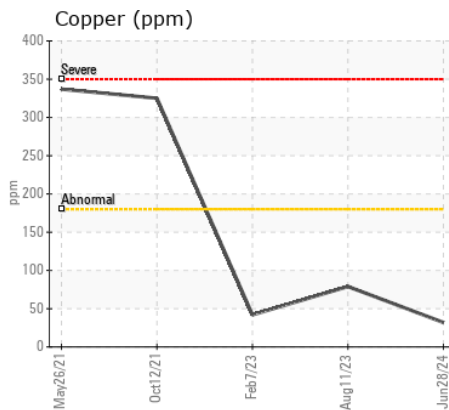
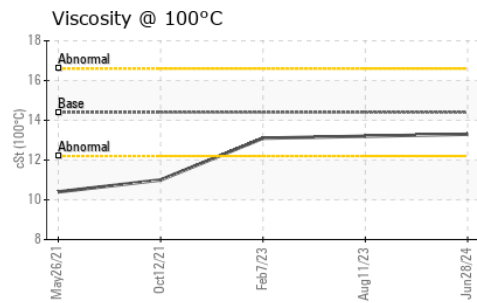
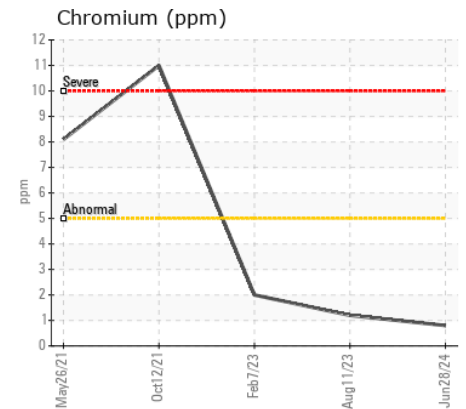
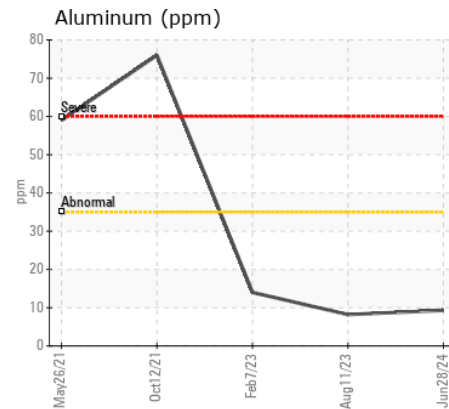
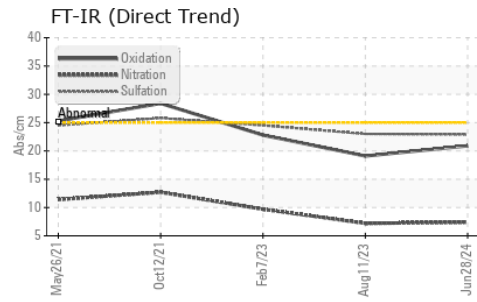
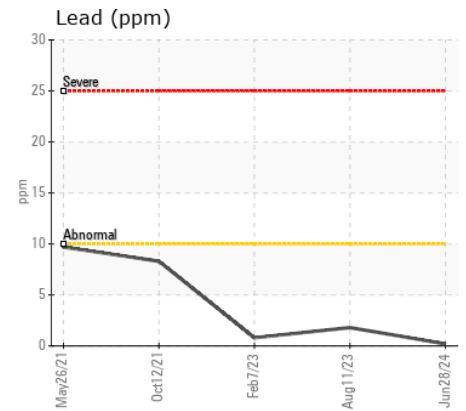
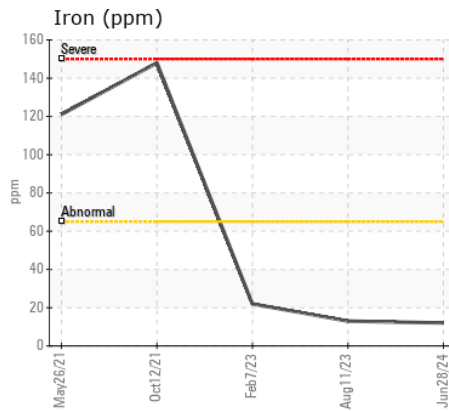
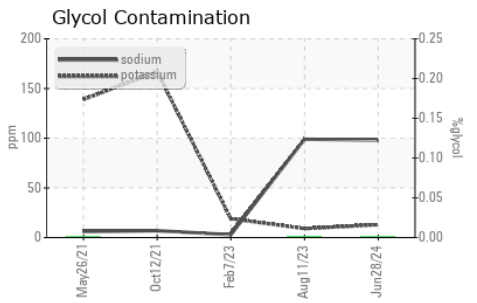
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	13	9	19
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.4	7.2	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	23.0	24.5
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	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	98	99	3
Boron	ppm	ASTM D5185(m)	250	44	48	24
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	38	41	40
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	488	514	488
Calcium	ppm	ASTM D5185(m)	3000	1662	1693	1708
Phosphorus	ppm	ASTM D5185(m)	1150	707	787	744
Zinc	ppm	ASTM D5185(m)	1350	857	861	854
Sulfur	ppm	ASTM D5185(m)	4250	2024	2029	1889
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	19.1	22.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.3	13.2	13.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0941310 **Received** : 03 Jul 2024  
**Lab Number** : 02645206 **Tested** : 03 Jul 2024  
**Unique Number** : 5802745 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

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.

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