



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[44952896]**  
 Machine Id  
**9822**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0924061</b>	WC0853273	WC0796329
Sample Date		Client Info		<b>09 Jun 2024</b>	29 Feb 2024	25 Jun 2023
Machine Age	kms	Client Info		<b>88549</b>	68648	362038
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>23</b>	78	47
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	21	12
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	12	4
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	23	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	4	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

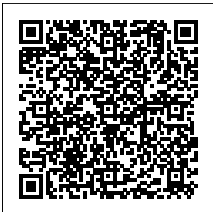
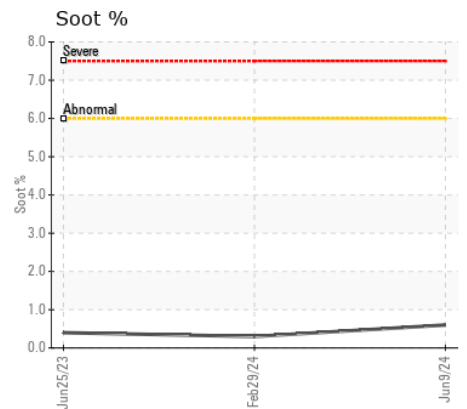
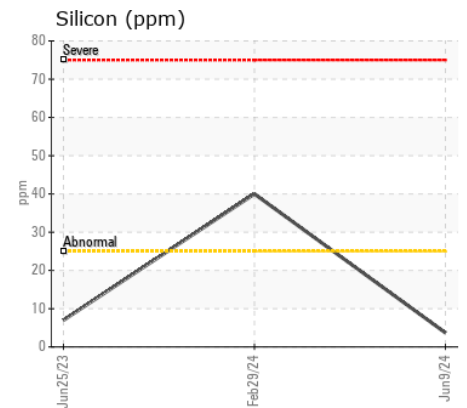
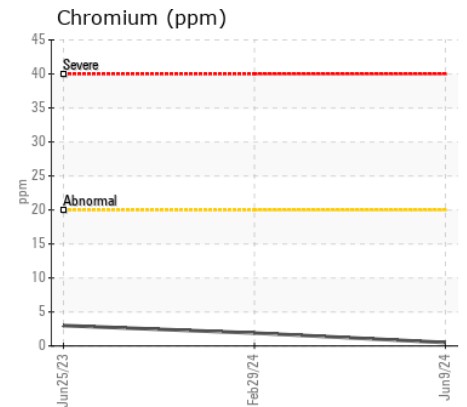
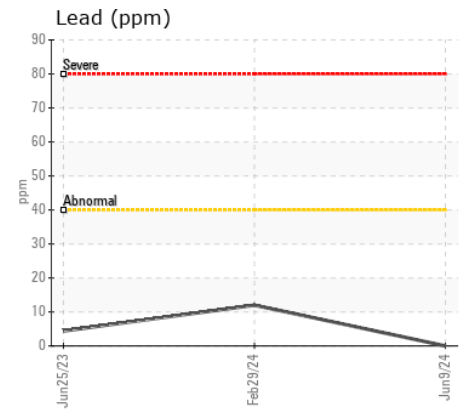
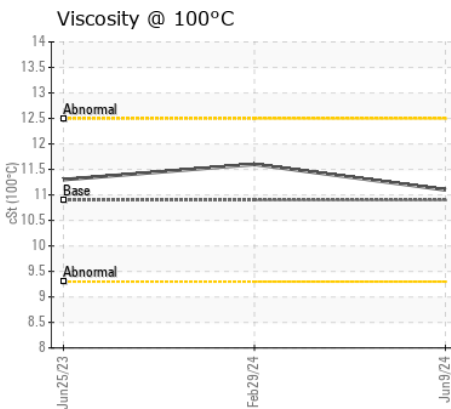
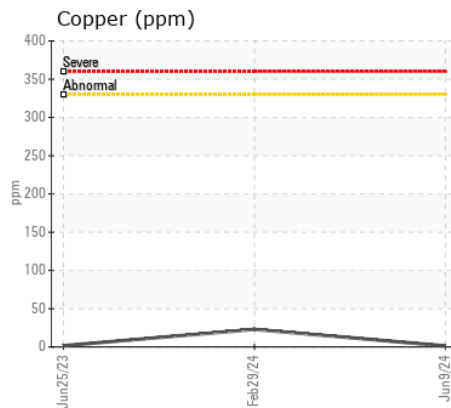
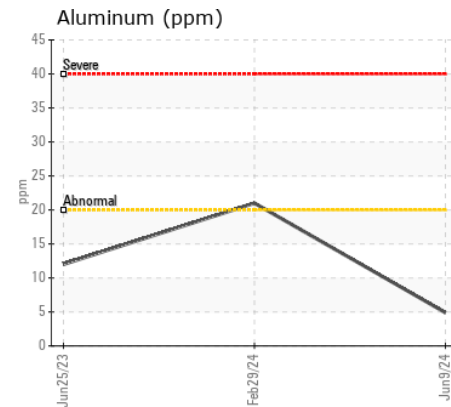
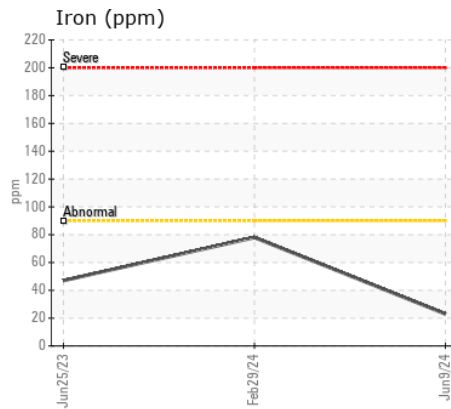
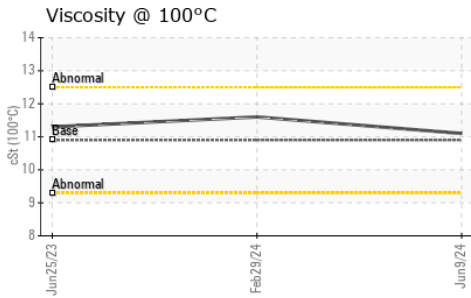
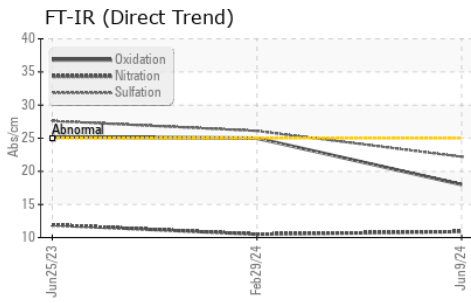
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	40	7
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	71	28
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 2.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.6</b>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.9</b>	10.5	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.2</b>	26.1	27.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>3</b>	5	4
Boron	ppm	ASTM D5185(m)	250	<b>41</b>	30	26
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	5	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>2</b>	65	4
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	5	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>703</b>	446	745
Calcium	ppm	ASTM D5185(m)	3000	<b>1295</b>	1766	1367
Phosphorus	ppm	ASTM D5185(m)	1150	<b>644</b>	963	732
Zinc	ppm	ASTM D5185(m)	1350	<b>755</b>	1163	797
Sulfur	ppm	ASTM D5185(m)	4250	<b>2382</b>	2592	2498
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	25.0	25.2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>11.1</b>	11.6	▲ 11.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924061 **Received** : 25 Jun 2024  
**Lab Number** : 02643900 **Tested** : 25 Jun 2024  
**Unique Number** : 5801439 **Diagnosed** : 25 Jun 2024 - Wes Davis  
**Test Package** : MOB 1

**Rush Truck Centres**  
 7450 Torbram Rd.  
 Mississauga, ON  
 CA L4T 1G9  
 Contact: Ideal Lease  
 ideal.lease@rushtruckcentres.ca

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.

T:  
F: