



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FORD NO UNIT WC0877864**

Component  
**Diesel Engine**

Fluid  
**SHELL Rotella T5 15W-40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0877864	---	---
Sample Date		Client Info		23 Feb 2024	---	---
Machine Age	kms	Client Info		180000	---	---
Oil Age	kms	Client Info		8050	---	---
Filter Age	kms	Client Info		8050	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	23	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	2	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	4	---	---
Lead	ppm	ASTM D5185(m)	>40	6	---	---
Copper	ppm	ASTM D5185(m)	>330	3	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

## CONTAMINATION

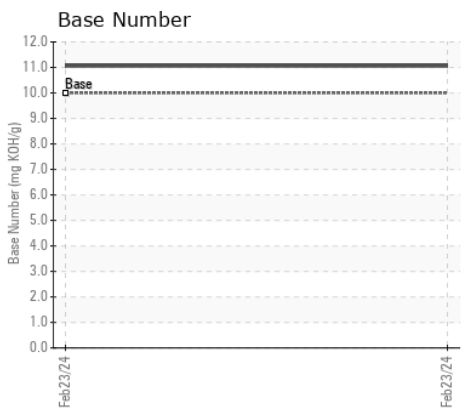
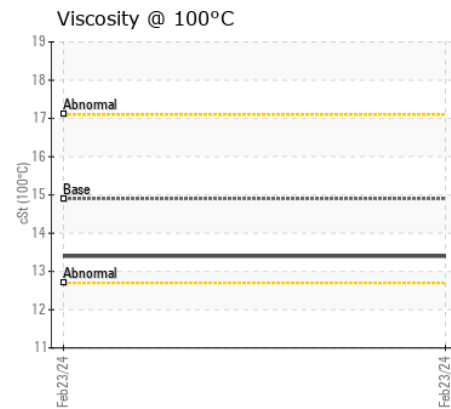
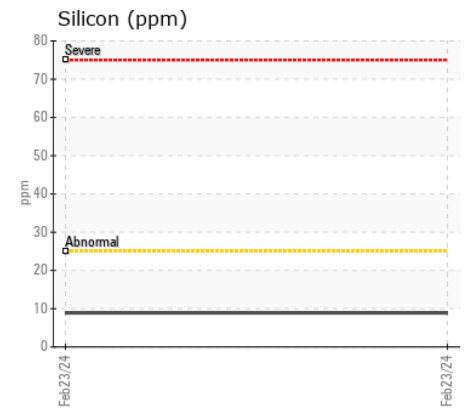
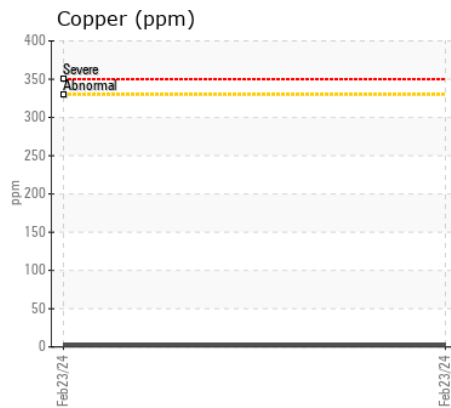
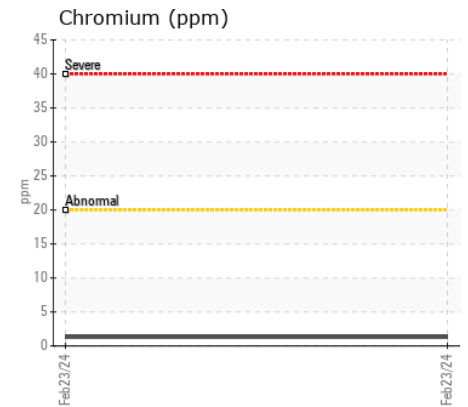
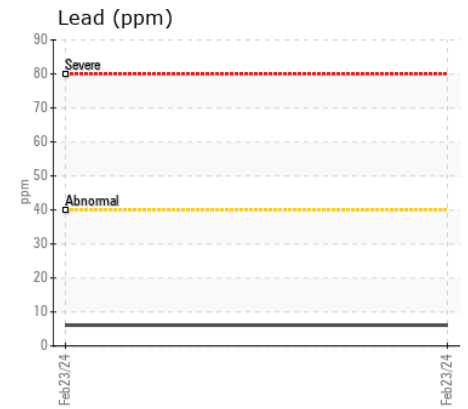
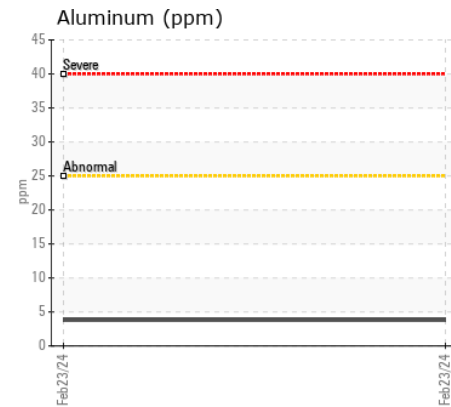
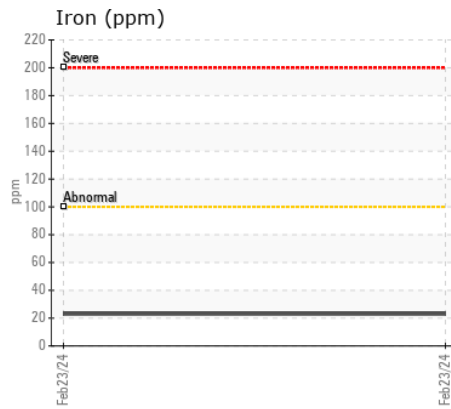
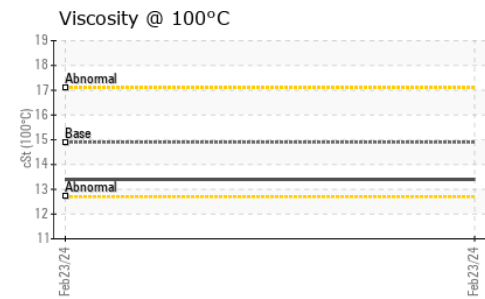
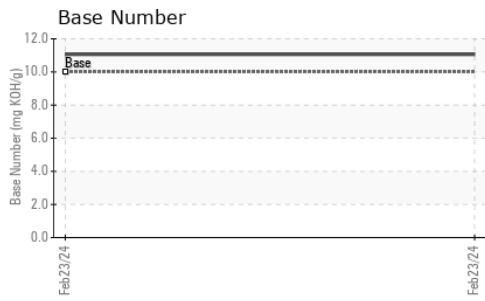
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	---	---
Potassium	ppm	ASTM D5185(m)	>20	10	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		8	---	---
Boron	ppm	ASTM D5185(m)		37	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		91	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		198	---	---
Calcium	ppm	ASTM D5185(m)		2034	---	---
Phosphorus	ppm	ASTM D5185(m)		1042	---	---
Zinc	ppm	ASTM D5185(m)		1174	---	---
Sulfur	ppm	ASTM D5185(m)		3312	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	11.06	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.9	13.4	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0877864 **Received** : 27 Feb 2024  
**Lab Number** : 02618254 **Tested** : 28 Feb 2024  
**Unique Number** : 5735364 **Diagnosed** : 28 Feb 2024 - Wes Davis  
**Test Package** : MOB 2

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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.