



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FORD 8464402**  
 Component  
**Gasoline Engine**  
 Fluid  
**MOTORCRAFT FULL SYNTHETIC SAE 5W30 (7 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0021056</b>	RPL0019289	RPL0012413
Sample Date		Client Info		<b>22 May 2024</b>	06 Apr 2024	28 Apr 2023
Machine Age	mls	Client Info		<b>57589</b>	56689	51123
Oil Age	mls	Client Info		<b>0</b>	5566	10848
Filter Age	mls	Client Info		<b>0</b>	5566	10848
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>9</b>	7	11
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	2	3
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>155	<b>15</b>	12	14
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

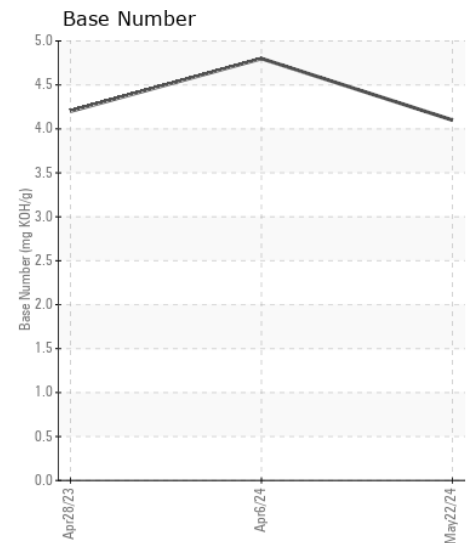
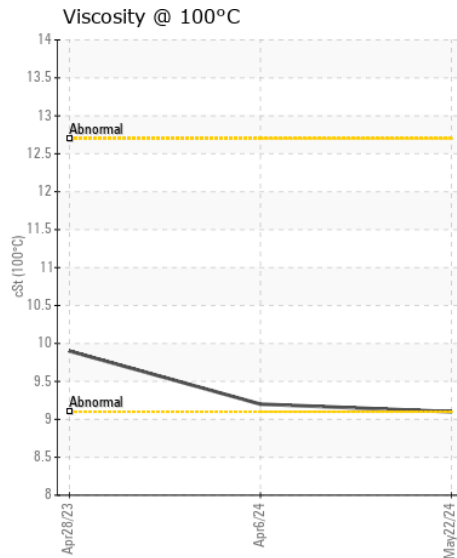
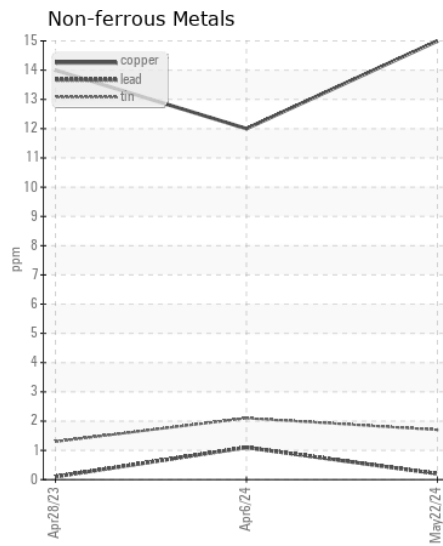
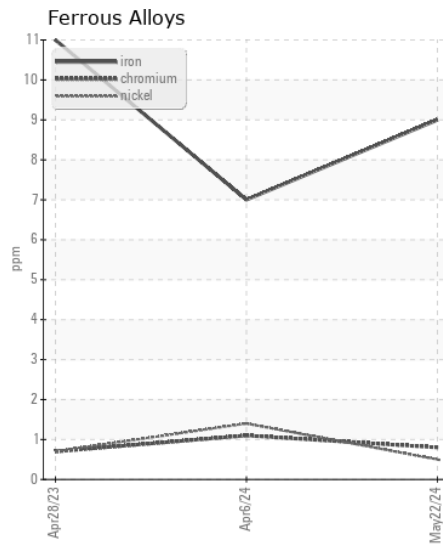
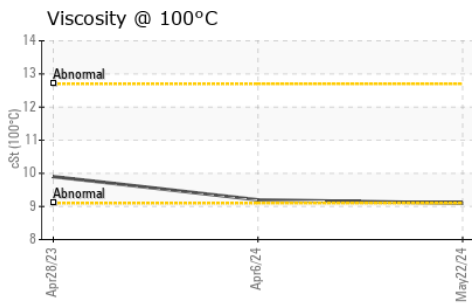
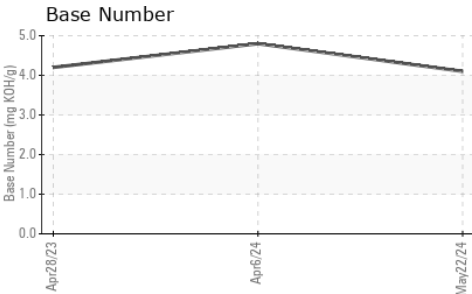
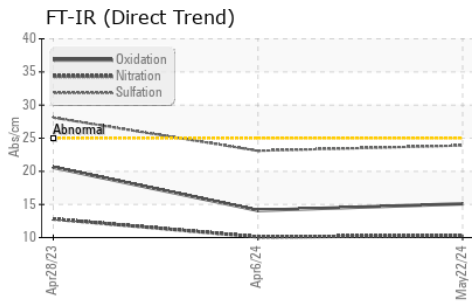
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>10</b>	10	10
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	10.1	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	23.1	28.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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 D5185m	>400	<b>8</b>	5	7
Boron	ppm	ASTM D5185m		<b>44</b>	49	24
Barium	ppm	ASTM D5185m		<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>102</b>	78	109
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>674</b>	517	447
Calcium	ppm	ASTM D5185m		<b>1238</b>	1022	1163
Phosphorus	ppm	ASTM D5185m		<b>888</b>	779	662
Zinc	ppm	ASTM D5185m		<b>1038</b>	821	786
Sulfur	ppm	ASTM D5185m		<b>3897</b>	3360	2742
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.1</b>	14.1	20.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.1</b>	4.8	4.20
Visc @ 100°C	cSt	ASTM D445		<b>9.1</b>	9.2	9.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0021056  
**Lab Number** : 06197342  
**Unique Number** : 11059465  
**Test Package** : FLEET

**Received** : 03 Jun 2024  
**Tested** : 04 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Wes Davis

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660

Contact: GERARDO CARROLA  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: