



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**FORD 8464394**  
 Component  
**Diesel Engine**  
 Fluid  
**MOTORCRAFT FULL SYNTHETIC SAE 5W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019304</b>	RPL0016875	RPL0013790
Sample Date		Client Info		<b>06 May 2024</b>	08 Jan 2024	08 Sep 2023
Machine Age	mls	Client Info		<b>40502</b>	38826	36895
Oil Age	mls	Client Info		<b>36895</b>	38826	36895
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	6	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	3
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>5</b>	3	7
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

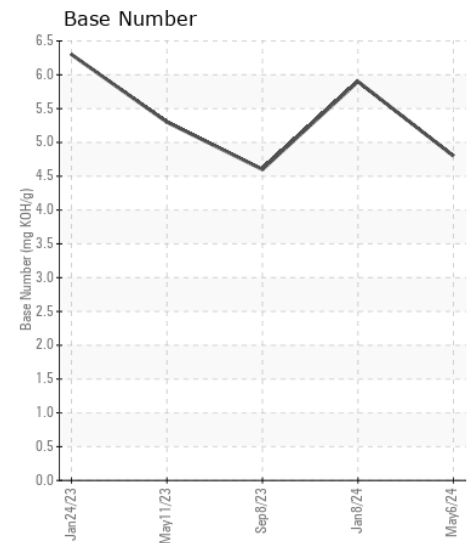
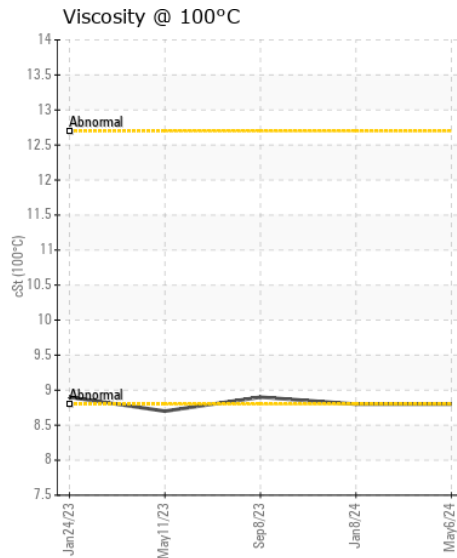
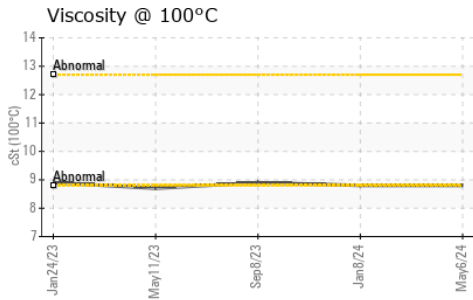
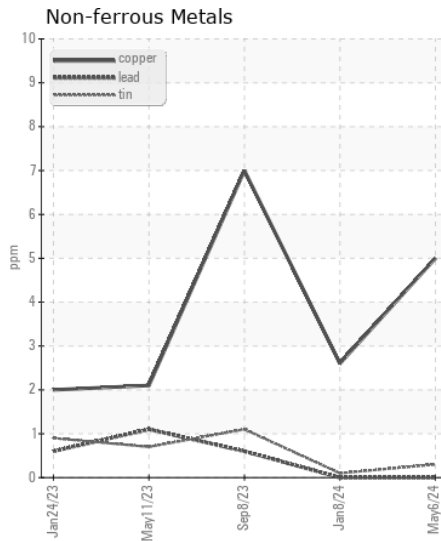
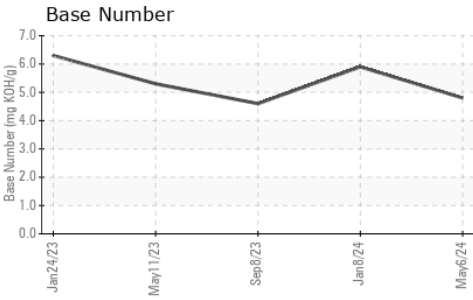
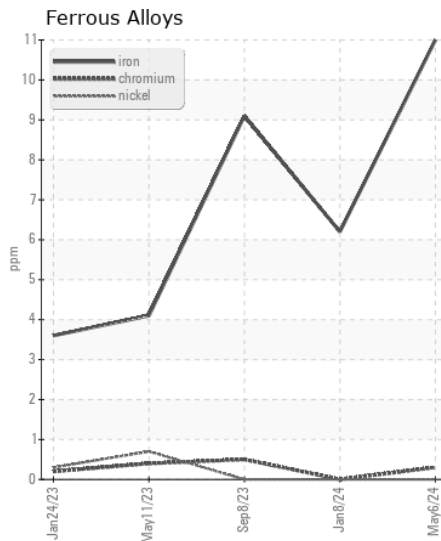
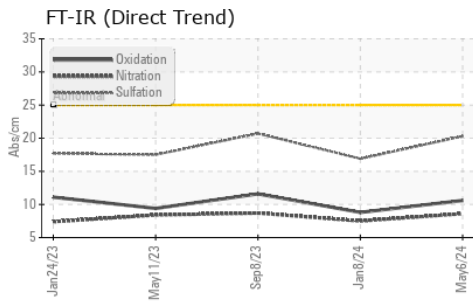
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	4
Fuel		WC Method	>5	<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	>3	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	16.9	20.7
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		<b>6</b>	3	10
Boron	ppm	ASTM D5185m		<b>81</b>	123	60
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>77</b>	74	84
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>584</b>	542	490
Calcium	ppm	ASTM D5185m		<b>1074</b>	1009	1007
Phosphorus	ppm	ASTM D5185m		<b>734</b>	716	650
Zinc	ppm	ASTM D5185m		<b>902</b>	835	780
Sulfur	ppm	ASTM D5185m		<b>3624</b>	3513	2682
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.6</b>	8.8	11.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.8</b>	5.9	4.6
Visc @ 100°C	cSt	ASTM D445		<b>8.8</b>	8.8	8.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019304  
**Lab Number** : 06225893  
**Unique Number** : 11109386  
**Test Package** : FLEET

**RTL PACLEASE - 7006 - Pico Rivera**  
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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)