



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD 8464723**  
 Component  
**Diesel Engine**  
 Fluid  
**MOTORCRAFT SUPER PREMIUM 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>RPL0019269</b>	RPL0016327	RPL0013796
Sample Date		Client Info		<b>03 Apr 2024</b>	12 Dec 2023	15 Aug 2023
Machine Age	mls	Client Info		<b>11643</b>	8776	7523
Oil Age	mls	Client Info		<b>6967</b>	8776	7523
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>82</b>	64	55
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	2	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>9</b>	8	9
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>10</b>	8	5
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
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.

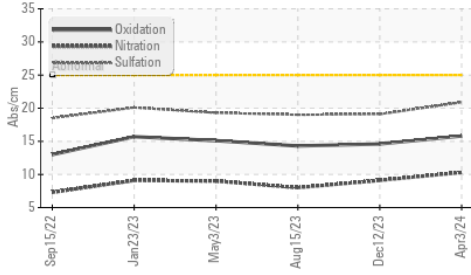
Silicon	ppm	ASTM D5185m	>25	<b>10</b>	8	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	9.1	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	19.1	19.0
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

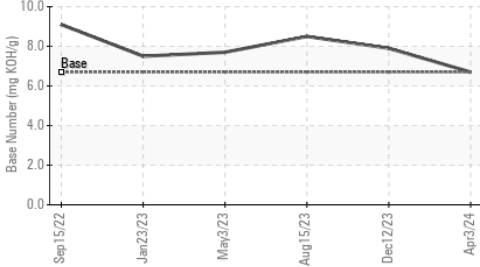
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	3	<1
Boron	ppm	ASTM D5185m		<b>48</b>	65	80
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>30</b>	29	29
Manganese	ppm	ASTM D5185m		<b>3</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>484</b>	471	538
Calcium	ppm	ASTM D5185m		<b>1651</b>	1557	1629
Phosphorus	ppm	ASTM D5185m		<b>1013</b>	1013	1051
Zinc	ppm	ASTM D5185m		<b>1198</b>	1140	1323
Sulfur	ppm	ASTM D5185m		<b>4083</b>	4109	4075
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	14.6	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	6.7	<b>6.7</b>	7.9	8.5
Visc @ 100°C	cSt	ASTM D445	10.8	<b>10.2</b>	10.4	11.0

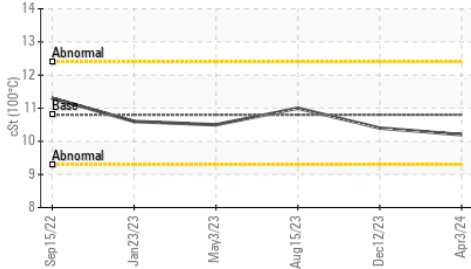
FT-IR (Direct Trend)



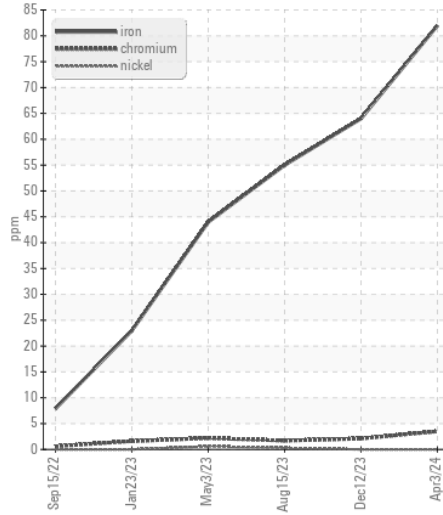
Base Number



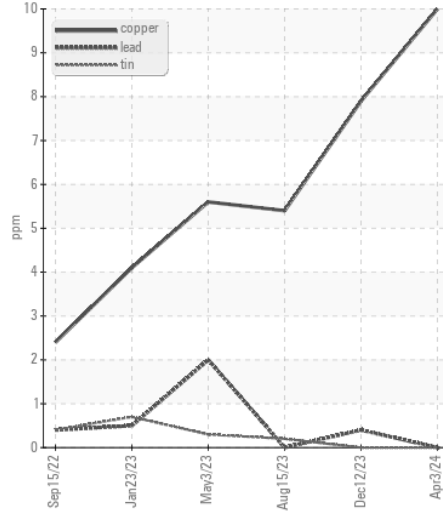
Viscosity @ 100°C



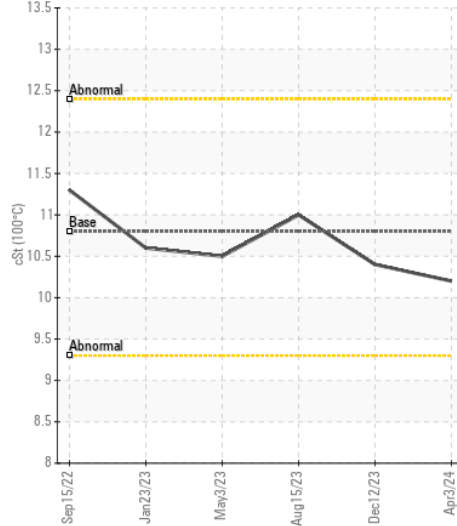
Ferrous Alloys



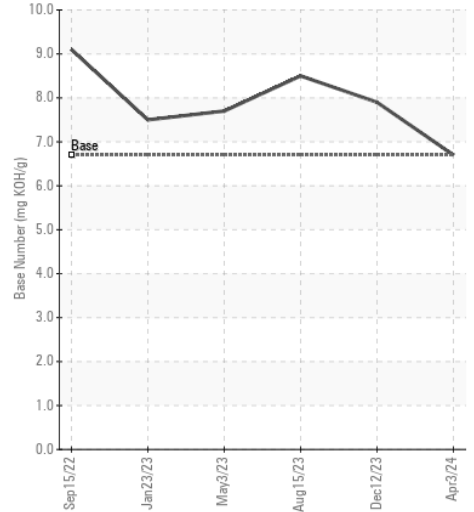
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019269  
**Lab Number** : 06225924  
**Unique Number** : 11109417  
**Test Package** : FLEET

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660  
 Contact: GERARDO CARROLA  
 carrolag@rushenterprises.com

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: