



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD F450 MT2913 (S/N EB42913)**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL 10W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0004960</b>	HPL0004067	HPL0002002
Sample Date		Client Info		<b>25 Jun 2024</b>	18 Sep 2023	17 Nov 2022
Machine Age	hrs	Client Info		<b>5990</b>	5789	90210
Oil Age	hrs	Client Info		<b>0</b>	0	4208
Filter Age	hrs	Client Info		<b>0</b>	0	4208
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>39</b>	29	27
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	4	2
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>13</b>	6	6
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>45	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

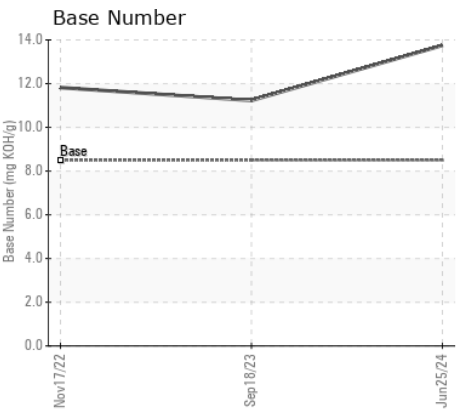
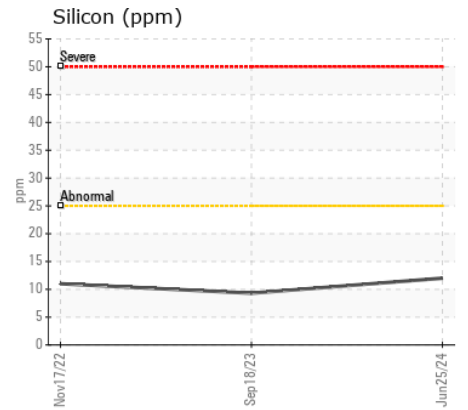
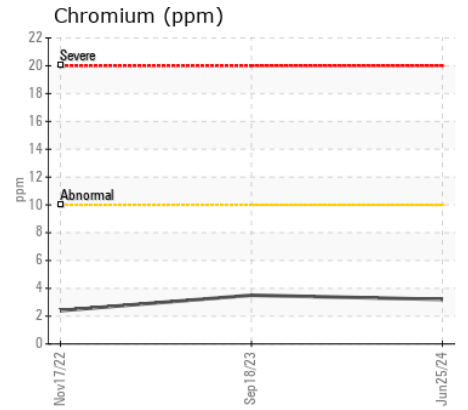
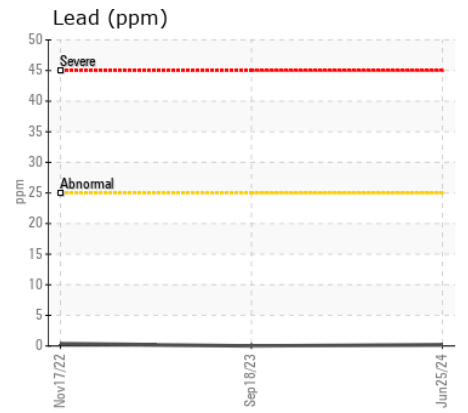
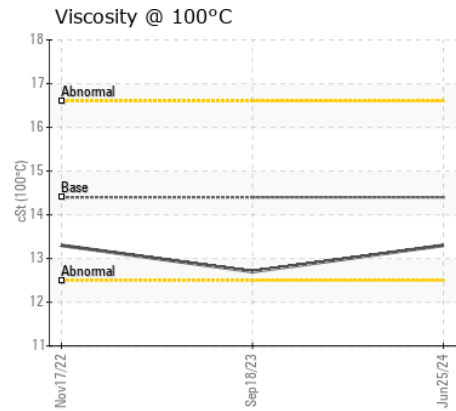
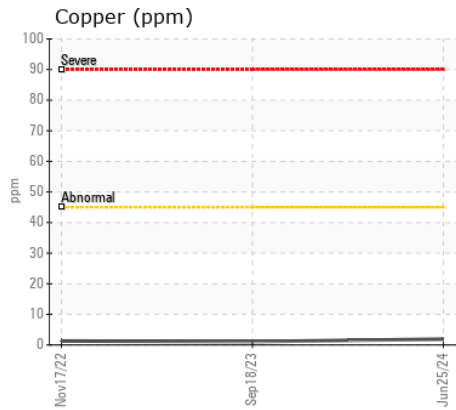
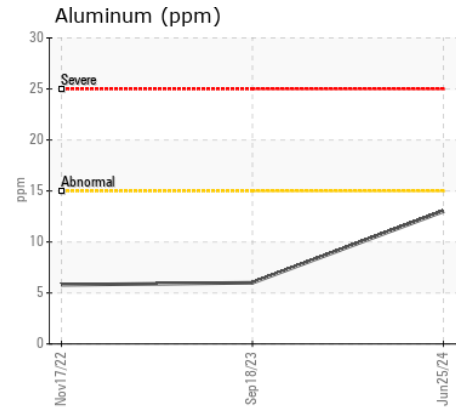
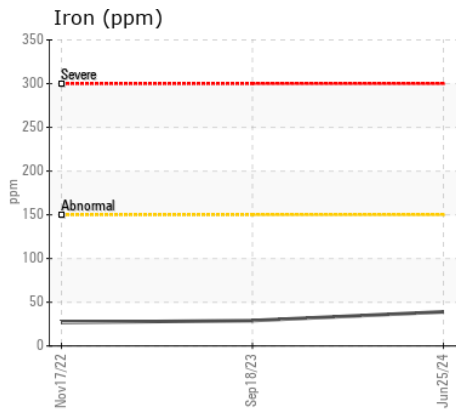
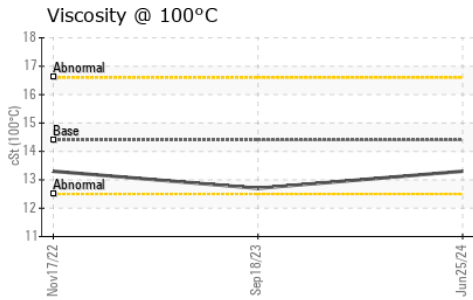
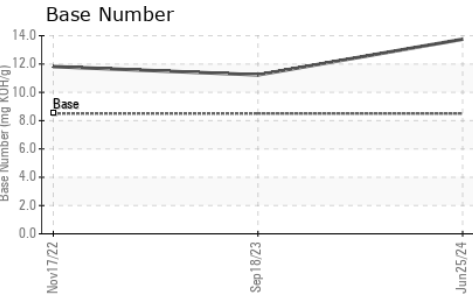
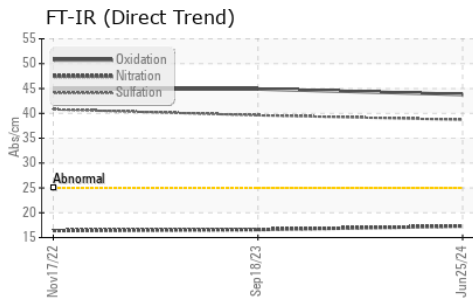
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	9	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
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	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>17.3</b>	16.6	16.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>38.7</b>	39.6	40.8
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>4</b>	3	3
Boron	ppm	ASTM D5185m	250	<b>2</b>	16	39
Barium	ppm	ASTM D5185m	10	<b>1</b>	0	<1
Molybdenum	ppm	ASTM D5185m	100	<b>549</b>	547	579
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>925</b>	958	876
Calcium	ppm	ASTM D5185m	3000	<b>2442</b>	2426	2772
Phosphorus	ppm	ASTM D5185m	1150	<b>1015</b>	1004	1008
Zinc	ppm	ASTM D5185m	1350	<b>1262</b>	1246	1191
Sulfur	ppm	ASTM D5185m	4250	<b>7757</b>	7272	9599
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>43.8</b>	44.9	44.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>13.75</b>	11.23	11.82
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.3</b>	12.7	13.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : HPL0004960

Lab Number : 06224680

Unique Number : 11102877

Test Package : MOB 2

Received : 01 Jul 2024

Tested : 02 Jul 2024

Diagnosed : 03 Jul 2024 - Angela Borella

STEVENS ON CRANE

410 STEVENSON DR

BOLINGBROOK, IL

US 60440

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F:

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)