



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD F350 1085 (S/N 1FT8W3BT9NEF63147)**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TLY0002243</b>	TLY0001941	TLY0001329
Sample Date		Client Info		<b>30 Jan 2024</b>	14 Nov 2023	15 Feb 2023
Machine Age	hrs	Client Info		<b>22201</b>	10609	9779
Oil Age	hrs	Client Info		<b>10609</b>	830	9779
Filter Age	hrs	Client Info		<b>10609</b>	830	9779
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>59</b>	66	59
Chromium	ppm	ASTM D5185m	>20	<b>5</b>	4	7
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>2</b>	12	14
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	5	▲ 16
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	1
Copper	ppm	ASTM D5185m	>330	<b>12</b>	51	60
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

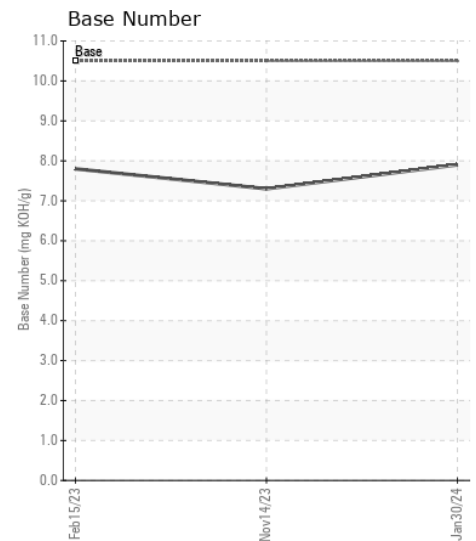
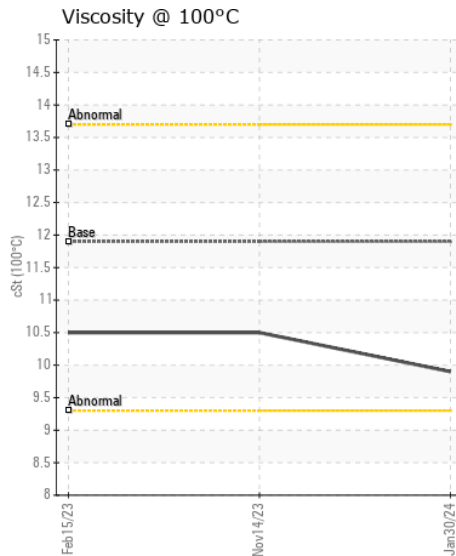
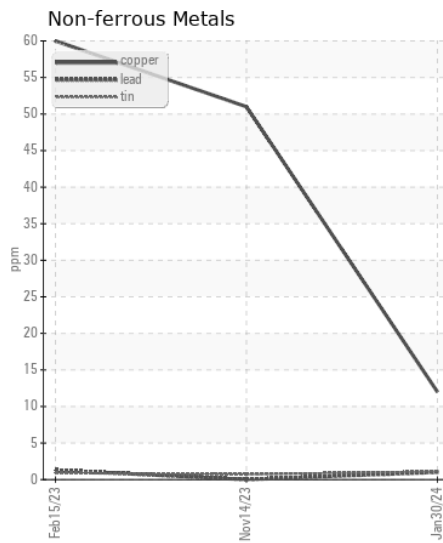
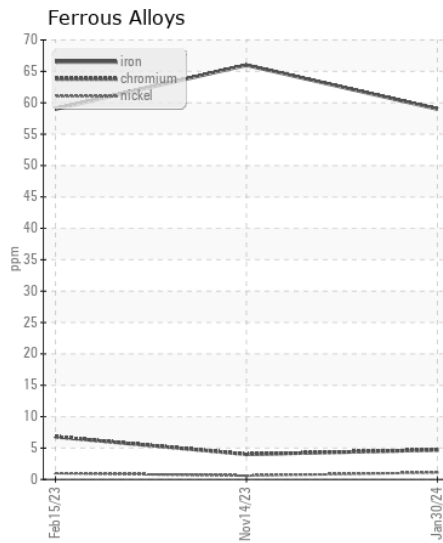
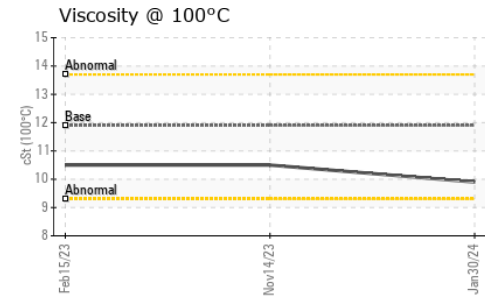
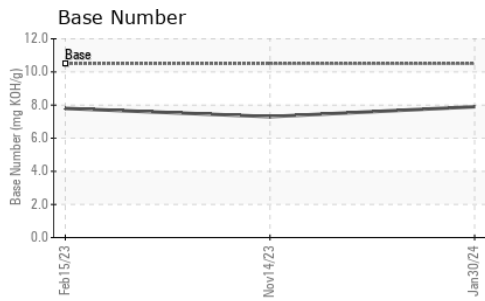
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	▲ 33	▲ 30
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	7	9
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>0.8</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.1</b>	9.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	22.1	21.0
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 suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	12	11
Boron	ppm	ASTM D5185m		<b>26</b>	41	58
Barium	ppm	ASTM D5185m		<b>14</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>43</b>	0	1
Manganese	ppm	ASTM D5185m		<b>3</b>	6	5
Magnesium	ppm	ASTM D5185m		<b>471</b>	745	675
Calcium	ppm	ASTM D5185m		<b>1378</b>	1275	1343
Phosphorus	ppm	ASTM D5185m		<b>751</b>	1042	1030
Zinc	ppm	ASTM D5185m		<b>869</b>	1198	1167
Sulfur	ppm	ASTM D5185m		<b>3004</b>	3485	3811
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	14.6	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>7.9</b>	7.3	7.8
Visc @ 100°C	cSt	ASTM D445	11.9	<b>9.9</b>	10.5	10.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002243 **Received** : 12 Feb 2024  
**Lab Number** : 06086575 **Tested** : 13 Feb 2024  
**Unique Number** : 10874020 **Diagnosed** : 13 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**GAINES & COMPANY**  
 112 WESTMINSTER RD  
 REISTERSTOWN, MD  
 US 21136

Contact: LANCE TANCRAITOR  
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 T: (410)833-9833

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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