



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD F-350 GEC 1010 (S/N 1FD8X3HT9HEB81057)**

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>TLY0002260</b>	TLY0001667	TLY0001506
Sample Date		Client Info		<b>06 Feb 2024</b>	02 Oct 2023	24 Apr 2023
Machine Age	mls	Client Info		<b>153718</b>	143724	132690
Oil Age	mls	Client Info		<b>143724</b>	11034	2902
Filter Age	mls	Client Info		<b>143724</b>	11034	2902
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>32</b>	40	20
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>8</b>	8	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>4</b>	3	<1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	0
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

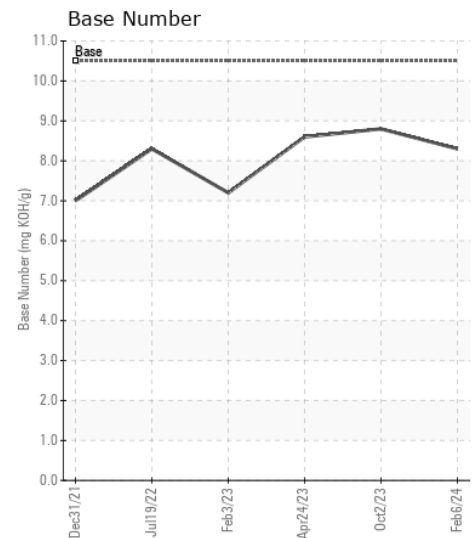
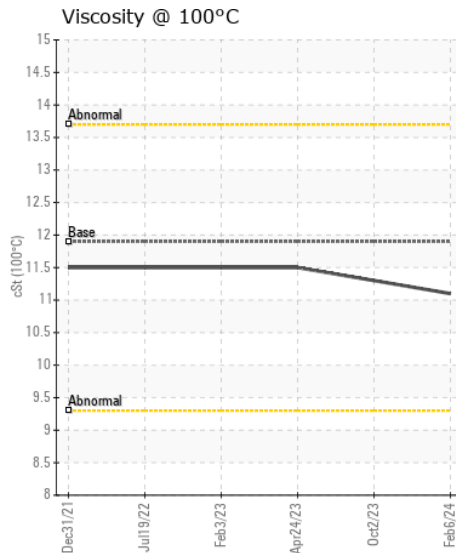
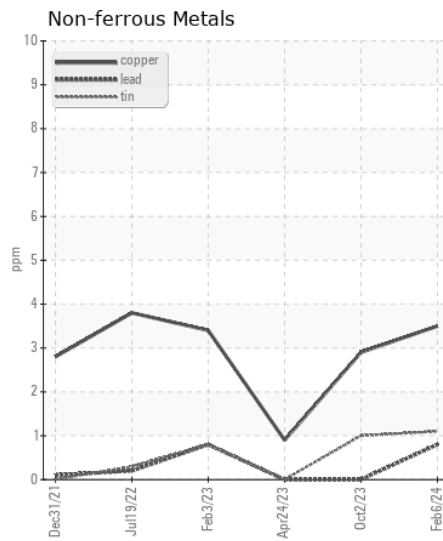
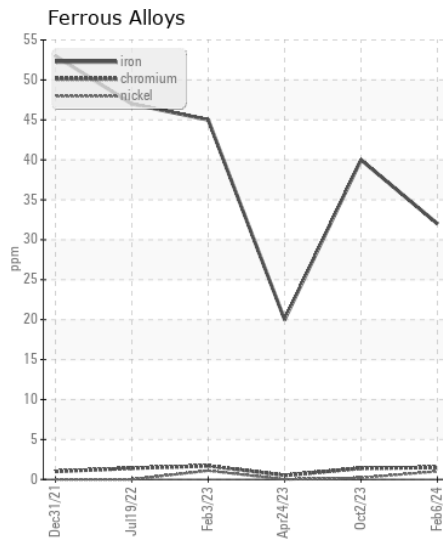
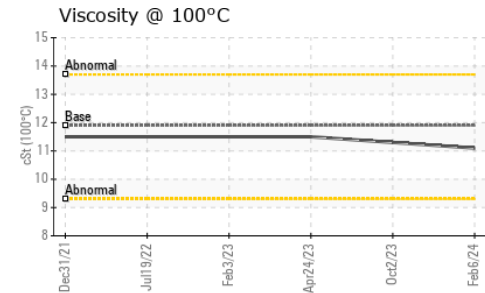
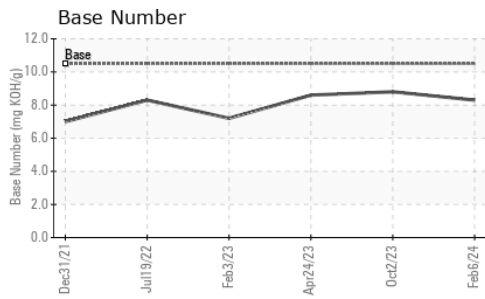
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	10	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	1
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>0.4</b>	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	10.7	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	21.7	19.6
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>	5	2
Boron	ppm	ASTM D5185m		<b>28</b>	24	44
Barium	ppm	ASTM D5185m		<b>13</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>51</b>	54	44
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>472</b>	532	571
Calcium	ppm	ASTM D5185m		<b>1492</b>	1596	1575
Phosphorus	ppm	ASTM D5185m		<b>757</b>	760	790
Zinc	ppm	ASTM D5185m		<b>878</b>	913	986
Sulfur	ppm	ASTM D5185m		<b>3092</b>	2445	2832
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.5</b>	22.3	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>8.3</b>	8.8	8.6
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.1</b>	11.3	11.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002260 **Received** : 12 Feb 2024  
**Lab Number** : 06086572 **Tested** : 13 Feb 2024  
**Unique Number** : 10874017 **Diagnosed** : 13 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

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

Contact: LANCE TANCRAITOR  
 ltancraitor@gainesandco.com  
 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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