



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD F-350 CT 142 (S/N 1FD8X3HT0FED73237)**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TLY0002335</b>	TLY0001117	WC0530808
Sample Date		Client Info		<b>15 May 2024</b>	08 Jun 2022	27 Apr 2021
Machine Age	mls	Client Info		<b>143056</b>	119650	108065
Oil Age	mls	Client Info		<b>119650</b>	11585	7528
Filter Age	mls	Client Info		<b>119650</b>	11585	7528
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

Piston, ring and cylinder wear is indicated.

Iron	ppm	ASTM D5185m	>100	<b>▲ 119</b>	47	7
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 25</b>	10	4
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>5</b>	4	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

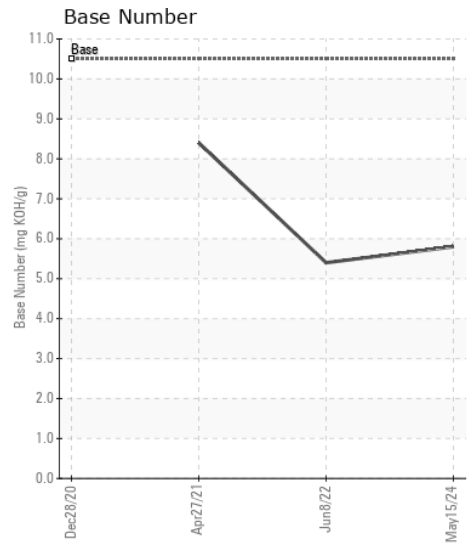
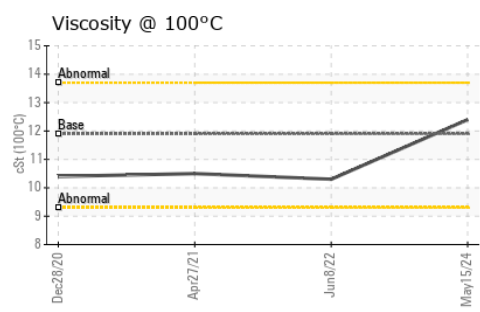
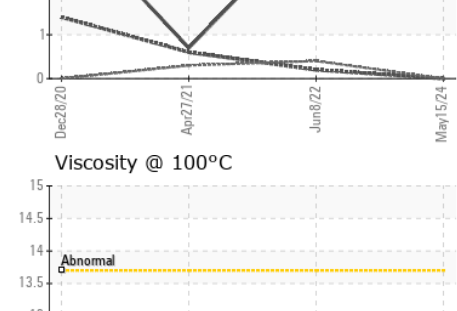
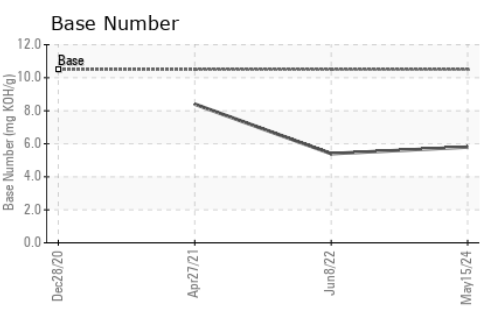
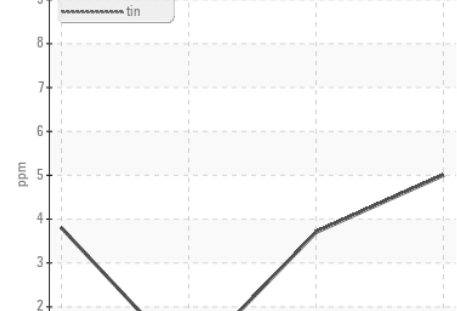
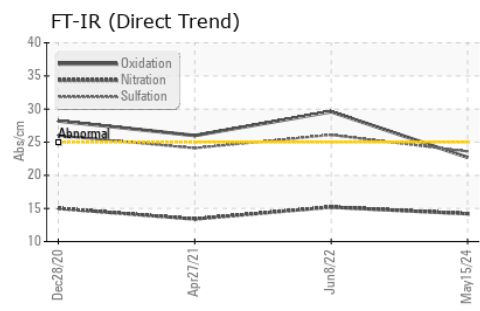
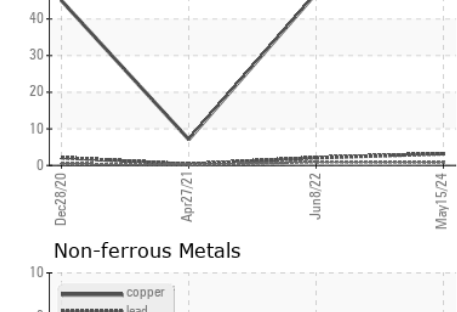
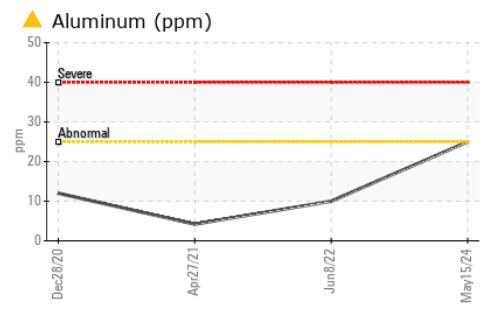
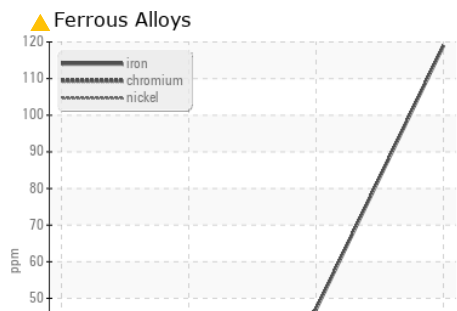
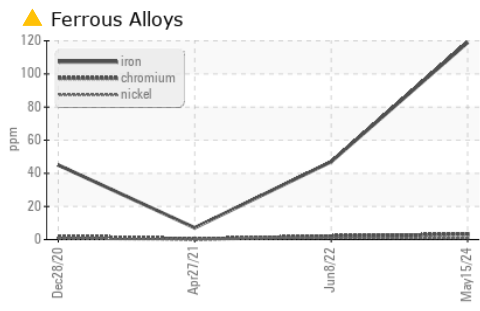
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	11	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<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>1.1</b>	1.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.2</b>	15.2	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	26.1	24.1
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>3</b>	6	1
Boron	ppm	ASTM D5185m		<b>21</b>	20	58
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>79</b>	46	35
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>169</b>	431	494
Calcium	ppm	ASTM D5185m		<b>2086</b>	1490	1536
Phosphorus	ppm	ASTM D5185m		<b>976</b>	649	900
Zinc	ppm	ASTM D5185m		<b>1123</b>	792	1090
Sulfur	ppm	ASTM D5185m		<b>3936</b>	2070	2627
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.7</b>	29.6	26
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>5.8</b>	5.4	8.4
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.4</b>	10.3	10.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002335 **Received** : 29 May 2024  
**Lab Number** : 06193544 **Tested** : 30 May 2024  
**Unique Number** : 11050296 **Diagnosed** : 30 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**GAINES & COMPANY**  
 112 WESTMINSTER RD  
 REISTERSTOWN, MD  
 US 21136  
 Contact: LANCE TANCRAITOR  
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Certificate L2367  
 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)