

# **OIL ANALYSIS REPORT**

Sample Rating Trend







# FORD F550 Service Truck 32

Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 40 (--- GAL)** 

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## Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

Cylinder, crank, or cam shaft wear is indicated. Valve wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

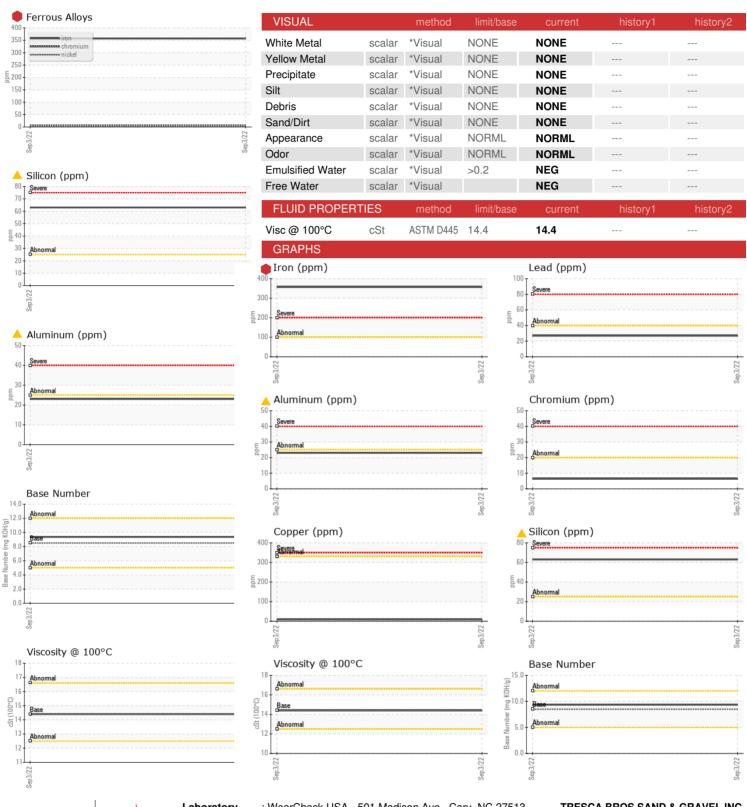
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				Sep2022		
SAMPLE INFORM	MATION	method	limit/base		history	history?
	VIATION		IIIIII/base	current	history1	history2
Sample Number		Client Info		WC0721492		
Sample Date		Client Info		03 Sep 2022		
Machine Age	mls	Client Info		115056		
Oil Age	mls	Client Info		3000		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>357</b>		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>2	<u>^</u> 5		
Titanium	ppm		>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	<u>^</u> 23		
Lead	ppm	ASTM D5185m	>40	27		
Copper	ppm		>330	9		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	' '	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	250	10		
	ppm	ASTM D5185m	10	0		
Barium	ppm			_		
Molybdenum	ppm	ASTM D5185m	100	87 4		
Manganese	ppm	ASTM D5185m	450	-		
Magnesium	ppm	ASTM D5185m	450	961		
Calcium	ppm	ASTM D5185m	3000	1210		
Phosphorus	ppm	ASTM D5185m	1150	1073		
Zinc	ppm	ASTM D5185m	1350	1300		
Sulfur	ppm	ASTM D5185m	4250	3396		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>▲</b> 63		
Sodium	ppm	ASTM D5185m	>216	16		
Potassium	ppm	ASTM D5185m	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1		
Nitration	Abs/cm	*ASTM D7624	>20	10.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.36		
(211)						



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 2

: WC0721492 : 05646702 : 10141241

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 20 Sep 2022 Received Diagnosed : 22 Sep 2022

: Jonathan Hester Diagnostician

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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