

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

FORD 2015 F250

Component

Diesel Engine

SHELL ROTELLA T 15W40 (13 QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

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.

Sm2022 Jun2023 Sm2003						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KLM2341614	KL0009643	KLM2339785
Sample Date		Client Info		23 Sep 2023	20 Jan 2023	23 Sep 2022
Machine Age	mls	Client Info		213920	191628	177296
Oil Age	mls	Client Info		51017	28333	14000
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33	16	8
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	3	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	8	6	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	32	59	114
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	25	14	16
Calcium	ppm	ASTM D5185m	2292	2173	2304	2254
Phosphorus	ppm	ASTM D5185m	1064	913	932	926
Zinc	ppm	ASTM D5185m	1160	1148	1190	1162
Sulfur	ppm	ASTM D5185m	4996	4013	4634	4396
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	13	10
Sodium	ppm	ASTM D5185m		3	1	2
Potassium	ppm	ASTM D5185m	>20	5	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7415 >30

Nitration Sulfation 9.3

25.5

10.5

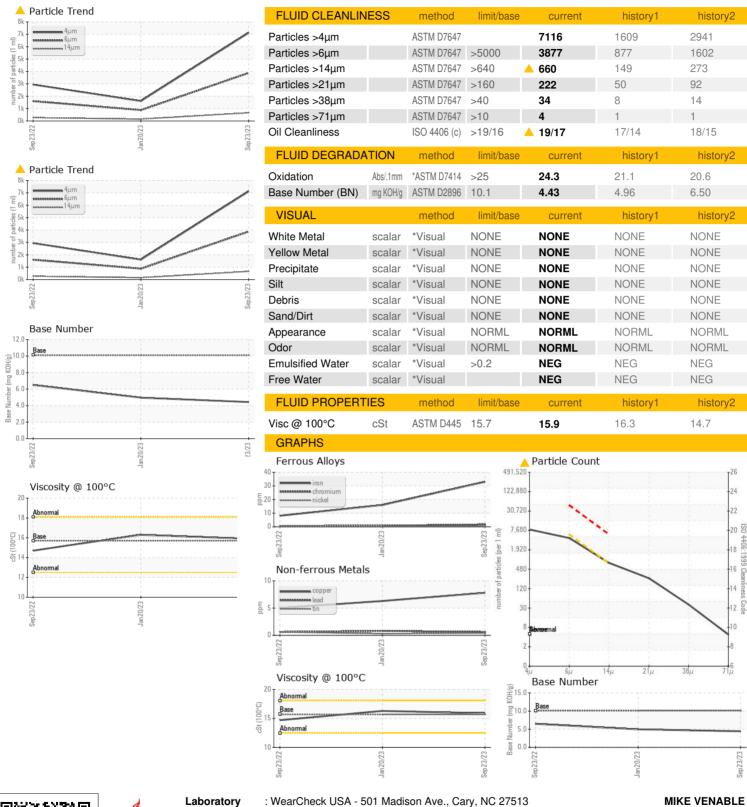
29.0

9.1

24.2



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05961852 : 10668403

Received : KLM2341614 Diagnosed Diagnostician : 26 Sep 2023

: 28 Sep 2023

: Wes Davis

Test Package : MOB 2 (Additional Tests: PrtCount) 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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