

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



FORD 2015 F250

Component

Diesel Engine

SHELL ROTELLA T 15W40 (13 QTS)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

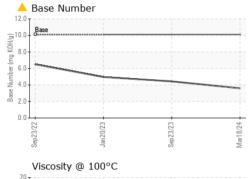
Fluid Condition

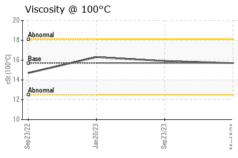
The BN level is low. The condition of the oil is suitable for further service.

	Sep2022 Jan2023 Sep2023 Mar2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KLMFA19064	KLM2341614	KL0009643
Sample Date		Client Info		18 Mar 2024	23 Sep 2023	20 Jan 2023
Machine Age	mls	Client Info		228572	213920	191628
Oil Age	mls	Client Info		65669	51017	28333
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	46	33	16
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	7	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	11	8	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	37	32	59
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	2	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	39	25	14
Calcium	ppm	ASTM D5185m	2292	2620	2173	2304
Phosphorus	ppm	ASTM D5185m	1064	954	913	932
Zinc	ppm	ASTM D5185m	1160	1189	1148	1190
Sulfur	ppm	ASTM D5185m	4996	5074	4013	4634
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	14	13
Sodium	ppm	ASTM D5185m		2	3	1
Potassium	ppm	ASTM D5185m	>20	7	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.5	9.3
Sulfation	Abs/.1mm		>30	30.1	29.0	25.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.2	24.3	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<u> </u>	4.43	4.96



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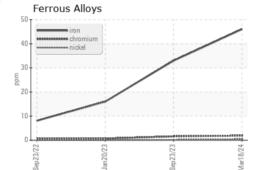


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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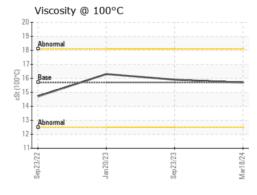
FLUID PHOPENTIES		method	iiiiii/base	current	HISTORY	riistoryz	
Visc @ 100°C	cSt	ASTM D445	15.7	15.7	15.9	16.3	

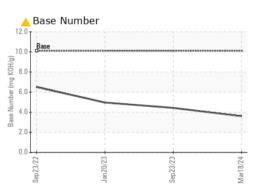
GRAPHS

Non-ferrous Metals



mdd









Laboratory Sample No.

Lab Number : 06125360 Unique Number : 10939511 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KLMFA19064

Received **Tested**

: 21 Mar 2024 : 22 Mar 2024 Diagnosed

: 25 Mar 2024 - Sean Felton

DUMAS, TX US 79029 Contact: MIKE VENABLE

m.venable65@outlook.com

T: (806)922-2102

MIKE VENABLE

917 PHILLIPS DR

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)