

PROBLEM SUMMARY

Sample Rating Trend

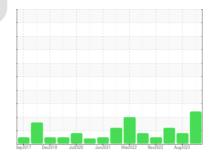
FUEL

FORD F550 CT15 (S/N 1FDUF5HT9GE868904)

Component

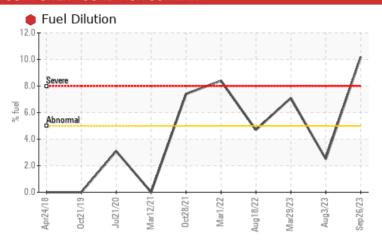
Diesel Engine

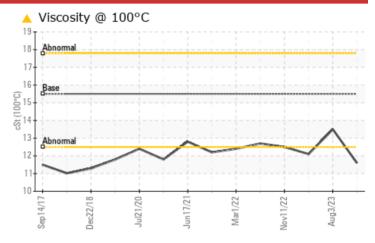
SHELL ROTELLA T3 15W40 (13 QTS)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC	TEST R	ESULTS				
Sample Status				SEVERE	MARGINAL	ABNORMAL
Fuel	%	ASTM D3524	>5	10.2	<u>^</u> 2.5	<u> </u>
Visc @ 100°C	cSt	ASTM D445	15.5	▲ 11.6	13.5	▲ 12.1

Customer Id: CUSKAL **Sample No.:** WC0791717 Lab Number: 05966931 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

Action Status Date Done By Description Resample --- ? We recommend an early resample to monitor this condition. Check Fuel/injector System --- ? We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

03 Aug 2023 Diag: Wes Davis

FUEL



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



29 Mar 2023 Diag: Don Baldridge

FUEL



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



11 Nov 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FORD F550 CT15 (S/N 1FDUF5HT9GE868904)

Component

Diesel Engine

SHELL ROTELLA T3 15W40 (13 QTS)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

		Sep2017 D	ec2018 Jul2020 Jur	2021 Mar2022 Nov2022	Awg2023	
SAMPLE INFOR	MATION	l method	limit/base	current	history1	history2
Sample Number		Client Info		WC0791717	WC0791721	WC0791704
Sample Date		Client Info		26 Sep 2023	03 Aug 2023	29 Mar 2023
Machine Age	mls	Client Info		74360	72471	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	MARGINAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	22	9	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	7
Lead	ppm	ASTM D5185m	>40	<1	4	0
Copper	ppm	ASTM D5185m	>330	<1	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	1	40	45
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	10	5	11	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	17	674	275
Calcium	ppm	ASTM D5185m	2600	2027	1486	1815
Phosphorus	ppm	ASTM D5185m	1050	815	758	933
Zinc	ppm	ASTM D5185m	1250	977	887	1101
Sulfur	ppm	ASTM D5185m	3900	3307	3488	3179
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	13	7
Sodium	ppm	ASTM D5185m		1	3	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Fuel	%	ASTM D3524	_	10.2	<u>^</u> 2.5	<u> </u>

*ASTM D7844 >3

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

0.3

8.2

17.6

10.9

6.2

INFRA-RED

FLUID DEGRADATION

Base Number (BN) mg KOH/g ASTM D2896 10.6

Soot %

Nitration

Sulfation

Oxidation

0.3

10.0

19.5

15.2

6.2

0.7

9.6

20.2

15.7

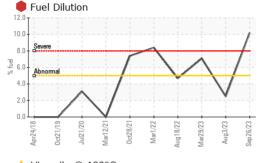
7.7



OIL ANALYSIS REPORT

VISUAL

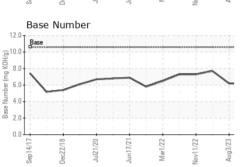
GRAPHS

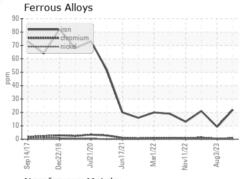


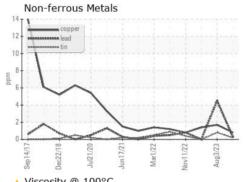
					,	/
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	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
ELLID DDODEDT	IFO	mathad	limit/bass	our root	historia	history?

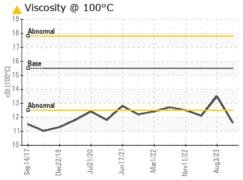
Viscos					
16 - Base					
Abnorma	al	_	<u> </u>		^

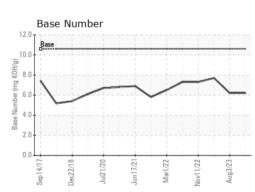
















Laboratory Sample No. Lab Number Unique Number : 10673482

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0791717 : 05966931

Received : 02 Oct 2023 Diagnosed Diagnostician : Wes Davis

: 04 Oct 2023

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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