

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

# **NORMAL**

# NOT GIVEN WC0584593

Component

**Diesel Engine** 

SHELL ROTELLA T 15W40 (--- GAL)

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **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.

				Jan 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0584593		
Sample Date		Client Info		27 Jan 2023		
Machine Age	mls	Client Info		185899		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	10		
Lead	ppm	ASTM D5185m	>40	18		
Copper	ppm	ASTM D5185m	>330	9		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	38		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	1.2	44		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	24	268		
Calcium	ppm	ASTM D5185m	2292	2085		
Phosphorus	ppm	ASTM D5185m	1064	868		
Zinc	ppm	ASTM D5185m	1160	1129		
Sulfur	ppm	ASTM D5185m	4996	3476		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	21		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	12.0		
C   f = 4! = . =	Ale of decree	*AOTM D7445	00	00.0		

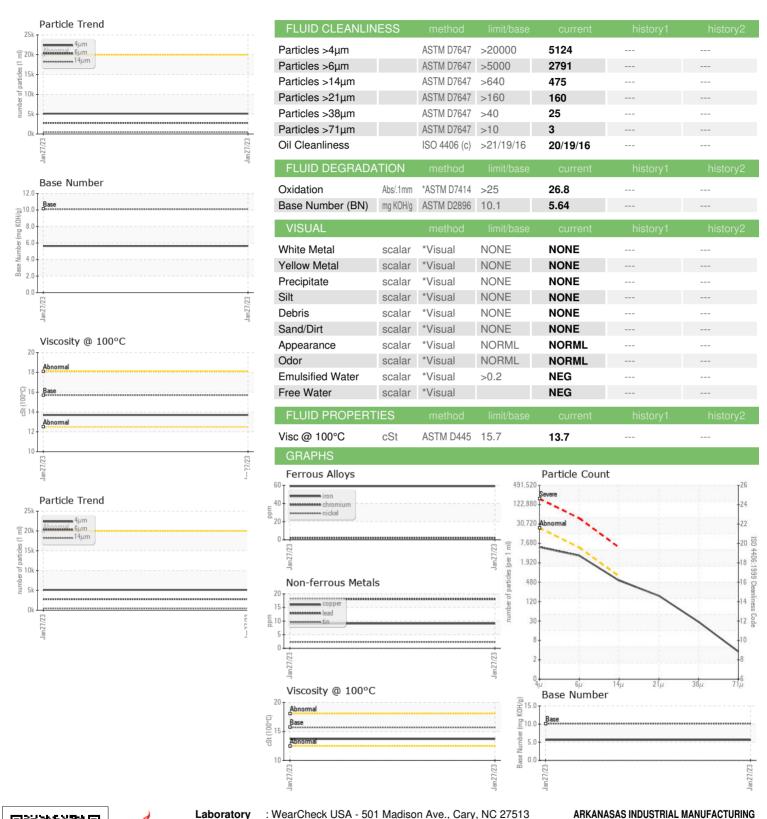
Sulfation

Abs/.1mm \*ASTM D7415 >30

29.6



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Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0584593

: 05780262

Unique Number: 10359932 Test Package : MOB 2 ( Additional Tests: PrtCount )

**Tested** Diagnosed

Received : 01 Mar 2023 : 02 Mar 2023

: 03 Mar 2023 - Jonathan Hester

NORTH 10141 HIGHWAY 63 BONO, AR US 72416

Contact: Aurelio Azpiazu aurelio@aftfilters.com T: (202)674-4440

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)