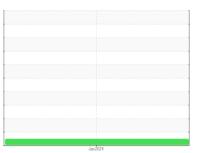


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



95054 Component Diesel Engine

Machine Id

SHELL ROTELLA T 15W40 (--- GAL)

### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

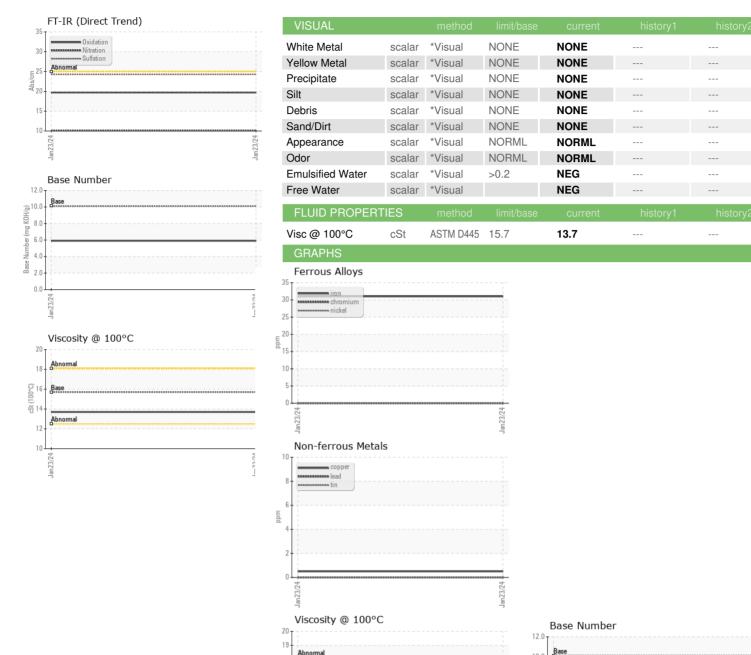
# **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBT0000041		
Sample Date		Client Info		23 Jan 2024		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	31		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	66		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	1.2	20		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	24	196		
Calcium	ppm	ASTM D5185m	2292	2244		
Phosphorus	ppm	ASTM D5185m	1064	962		
Zinc	ppm	ASTM D5185m	1160	1156		
Sulfur	ppm	ASTM D5185m	4996	4058		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium Potassium	ppm	ASTM D5185m	. 20	3		
	ppm	ASTM D5185m	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	10.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.9		



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. : SBT0000041 Lab Number : 06142111 Unique Number : 10966919 Test Package : FLEET

cSt (100°C)

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

**Tested** : 09 Apr 2024 Diagnosed

: 11 Apr 2024 - Jonathan Hester

(mg K0H/g

0.0

Sapp Bros. Fleet - Butte Location 613 Thayer Butte, NE

US 68722 Contact: Carol Liewer cliewer@sappbros.net T: (402)340-9980

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)