

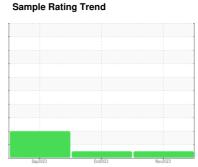
# **OIL ANALYSIS REPORT**



Bridgewater **CATERPILLAR 5642** 

Component **Diesel Engine** 

SHELL ROTELLA T 15W40 (--- QTS)





### DIAGNOSIS

### 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

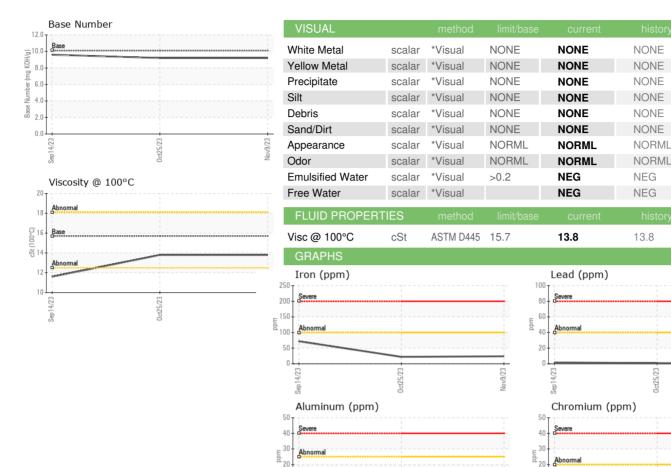
### **Fluid Condition**

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

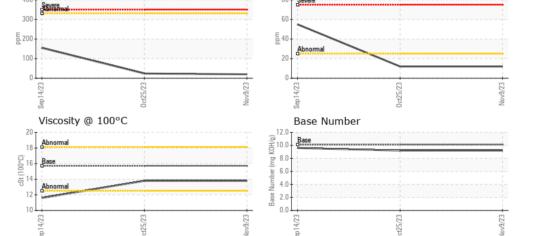
		Sej	2023	Oct2023 Nov20	023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864880	WC0850670	WC0850645
Sample Date		Client Info		09 Nov 2023	25 Oct 2023	14 Sep 2023
Machine Age	hrs	Client Info		1578	2023	1072
Oil Age	hrs	Client Info		506	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.6
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	24	22	72
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	2	6
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	20	24	155
Tin	ppm		>15	1	<1	4
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	7	7	33
Barium	ppm	ASTM D5185m	0.0	0	7	2
Molybdenum	ppm	ASTM D5185m	1.2	57	61	49
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	24	908	822	617
Calcium	ppm	ASTM D5185m	2292	1210	1242	1929
Phosphorus	ppm	ASTM D5185m	1064	1028	1030	1234
Zinc	ppm	ASTM D5185m	1160	1289	1181	1357
Sulfur	ppm	ASTM D5185m	4996	3091	3524	3846
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	12	<u>\$ 55</u>
Sodium	ppm	ASTM D5185m		1	0	6
Potassium	ppm	ASTM D5185m	>20	<1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	1
Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.9	23.7
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.7	20.8
Onidation			725	17.0	10.7	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	9.2	9.2	9.6



## **OIL ANALYSIS REPORT**



Copper (ppm)



Silicon (ppm)





Certificate L2367

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

: WC0864880 : 06015615 : 10754759

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

Diagnosed

: 22 Nov 2023 : 27 Nov 2023

Diagnostician : Sean Felton

Test Package : MOB 1 ( Additional Tests: 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)

**INTERSTATE WASTE-BRIDGEWATER** 

15 POLHEMUS LANE BRIDGEWATER, NJ US 08807

NONE

NONE

NONE

NONE NONE

NONE

NORML

NORML

NEG

NEG

**11.6** 

Contact: PABLO CHARDON PChardon@interstatewaste.com

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