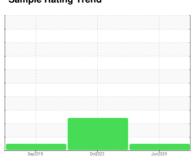


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **CUMMINS 5.9**

Component
Starboard Main Engine

SHELL ROTELLA T 15W40 (12 QTS)

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### 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 oil.

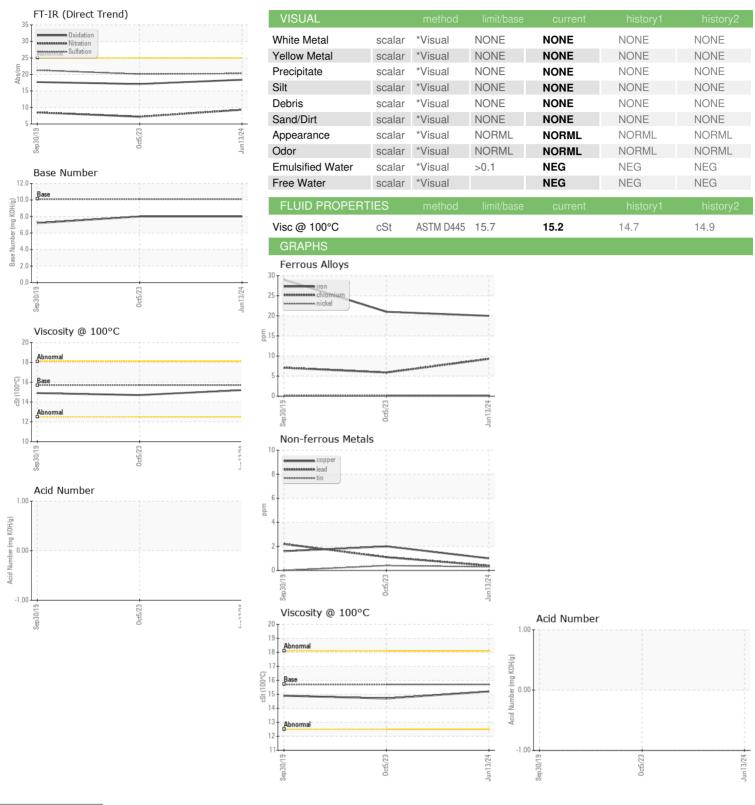
### **Fluid Condition**

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

		Sep	2019	Oct2023 Junži	024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830775	WC0830778	WC0394162
Sample Date		Client Info		13 Jun 2024	05 Oct 2023	30 Sep 2019
Machine Age	hrs	Client Info		300	2800	2390
Oil Age	hrs	Client Info		300	350	150
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	20	21	29
Chromium	ppm	ASTM D5185m	>8	9	6	7
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>3	<1	<1	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<b>5</b>	2
Lead	ppm	ASTM D5185m	>18	<1	1	2
Copper	ppm	ASTM D5185m	>80	1	2	2
Tin	ppm	ASTM D5185m	>14	<1	<1	0
Antimony	ppm	ASTM D5185m				4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	60	212	130
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	33	<1	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	376	16	78
Calcium	ppm	ASTM D5185m	2292	1697	2243	2218
Phosphorus	ppm	ASTM D5185m	1064	1086	1055	924
Zinc	ppm	ASTM D5185m	1160	1211	1302	1129
Sulfur	ppm	ASTM D5185m	4996	3025	4663	3084
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	<b>▲</b> 34	6
Sodium	ppm	ASTM D5185m	>75	5	8	16
Potassium	ppm	ASTM D5185m	>20	5	10	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.2	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.1	21.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	17.1	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.0	8.0	7.21
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## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WC0830775 Lab Number : 06212917 Unique Number : 11085781

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

Received : 17 Jun 2024 : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Angela Borella

SLIDELL, LA US 70458 Contact: PRESTON SALTALAMACCHIA prestonandhisboat@gmail.com

**PRESTON J SALTALAMACCHIA** 

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)

Test Package : MAR 2 ( Additional Tests: TAN Man )

T: (504)599-9384 F:

155 ROBERT ST