

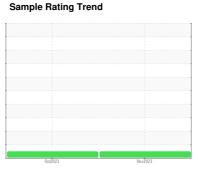
# **OIL ANALYSIS REPORT**



# Ewing Hauling **MACK 2551**

Component **Diesel Engine** 

GIBRALTAR 15W/40 SUPER S-3 LX (11)





### 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

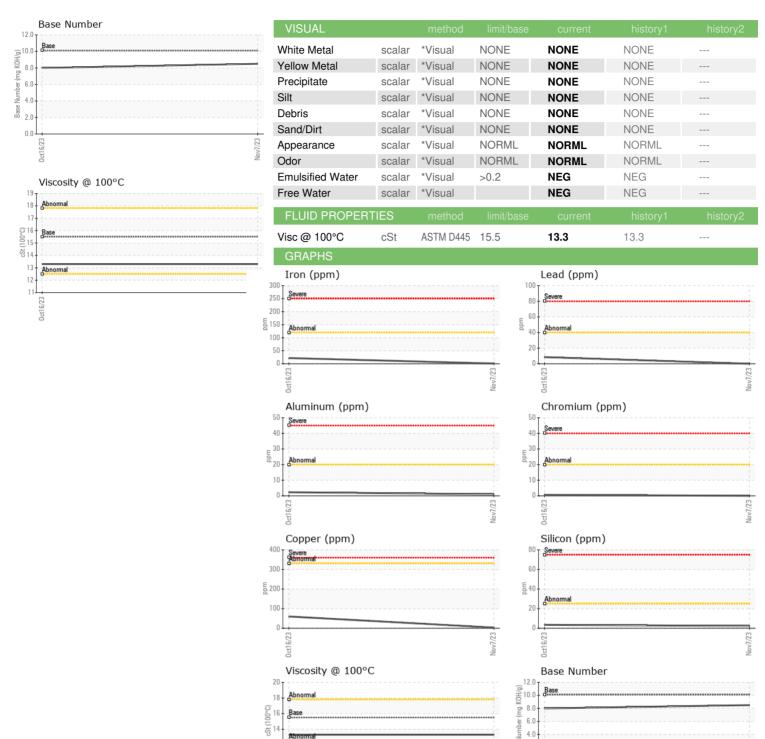
### **Fluid Condition**

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

OF EIT 3-3 EX (T	',	L	0ct2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0863232	WC05980871	
Sample Date		Client Info		07 Nov 2023	16 Oct 2023	
Machine Age	hrs	Client Info		1818	0	
Oil Age	hrs	Client Info		1818	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	1	22	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	2	
Lead	ppm	ASTM D5185m	>40	0	8	
Copper		ASTM D5185m		3	60	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m	>10	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		14	9	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m	66	50	63	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	1000	660	945	
Calcium	ppm	ASTM D5185m	1050	1228	1250	
Phosphorus	ppm	ASTM D5185m	1150	890	1133	
Zinc	ppm	ASTM D5185m	1270	1046	1428	
Sulfur	ppm	ASTM D5185m		2774	3559	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	9	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	1.6	
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.8	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.4	
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.5	8.0	



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: WC0863232 : 06010117 : 10749261

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

: 17 Nov 2023 Diagnostician : Wes Davis

2.0

0.0

: 16 Nov 2023

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-EWING** 

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