

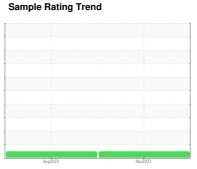
OIL ANALYSIS REPORT



Ewing Hauling **MACK 2564**

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

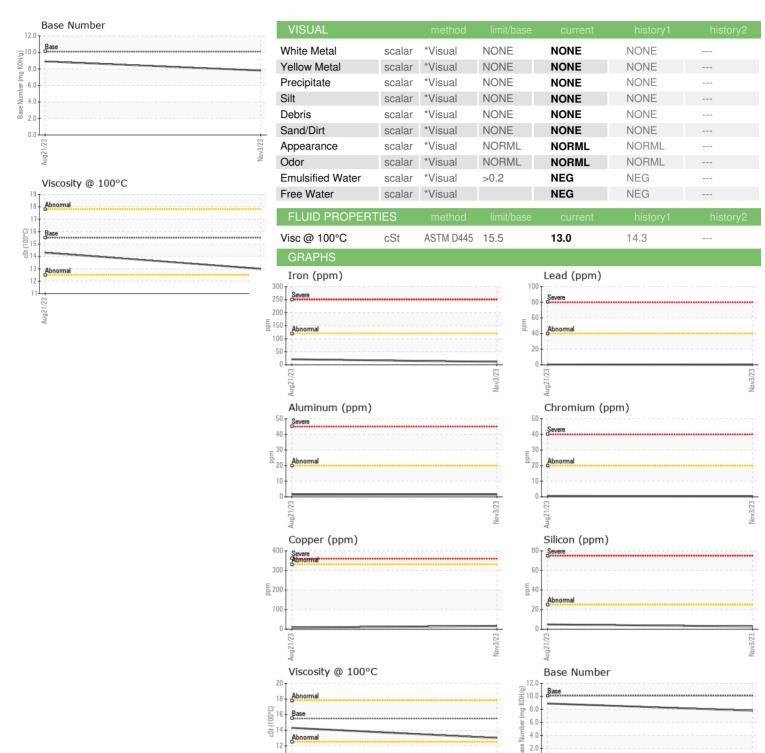
Fluid Condition

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

UPER 3-3 LX (I	11)		Aug2023	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0863226	WC0840498	
Sample Date		Client Info		03 Nov 2023	21 Aug 2023	
Machine Age	hrs	Client Info		4901	4455	
Oil Age	hrs	Client Info		446	450	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status		Olichi illio		NORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method	70.0	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	21	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	17	8	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	8	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m	66	54	68	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	1000	527	1036	
Calcium	ppm	ASTM D5185m	1050	1373	1453	
Phosphorus	ppm	ASTM D5185m	1150	938	1134	
Zinc	ppm	ASTM D5185m	1270	1098	1408	
Sulfur	ppm	ASTM D5185m		2989	4238	
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	
Sodium	ppm	ASTM D5185m		0	1	
Potassium	ppm	ASTM D5185m	>20	0	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	2.1	1.8	
Nitration	Abs/cm	*ASTM D7624		8.8	8.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.0	
FLUID DEGRAD	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	12.7	
Base Number (BN)	mg KOH/g		10.1	7.8	8.9	
Dase Mulliber (DIN)	ilig NOn/g	49 LINI D5030	10.1	7.0	0.5	



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

10

: WC0863226 : 06010116 : 10749260

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 Diagnosed

: 17 Nov 2023 Diagnostician : Wes Davis

0.0

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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Report Id: INTEWI [WUSCAR] 06010116 (Generated: 11/17/2023 12:34:42) Rev: 1