

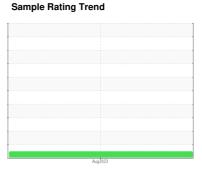
OIL ANALYSIS REPORT



Ewing Hauling **MACK 2580**

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

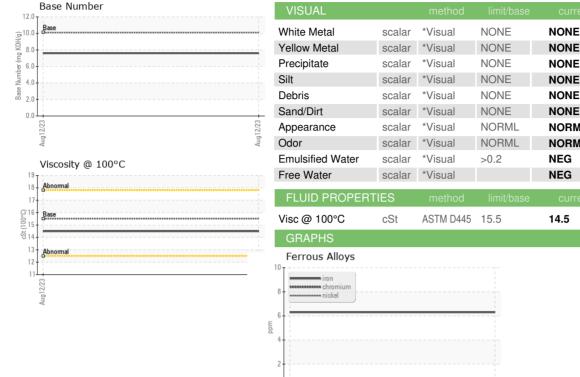
Fluid Condition

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

OF LIT 3-3 LX (,			Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831118		
Sample Date		Client Info		12 Aug 2023		
Machine Age	hrs	Client Info		16775		
Oil Age	hrs	Client Info		150		
Oil Changed		Client Info		Filtered		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	6		
Chromium	ppm	ASTM D5185m	>20	0		
Vickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	7.0	<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		26		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	66	50		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1000	585		
Calcium	ppm	ASTM D5185m	1050	1591		
Phosphorus	ppm	ASTM D5185m	1150	784		
Zinc	ppm	ASTM D5185m	1270	949		
Sulfur	ppm	ASTM D5185m	, 0	3069		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0		
Nitration	Abs/cm	*ASTM D7624	>20	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.6		



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: WC0831118 : 05931435 : 10616706

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 22 Aug 2023 : 24 Aug 2023 Diagnostician : Don Baldridge **INTERSTATE WASTE-EWING** 432 STOKES AVENUE EWING TOWNSHIP, NJ US 08638

Contact: Carlos Evans

CEvans@interstatewaste.com T:

* - 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)

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