

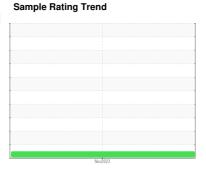
OIL ANALYSIS REPORT



Bernardsville **MACK 2373**

Component **Diesel Engine**

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





Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the

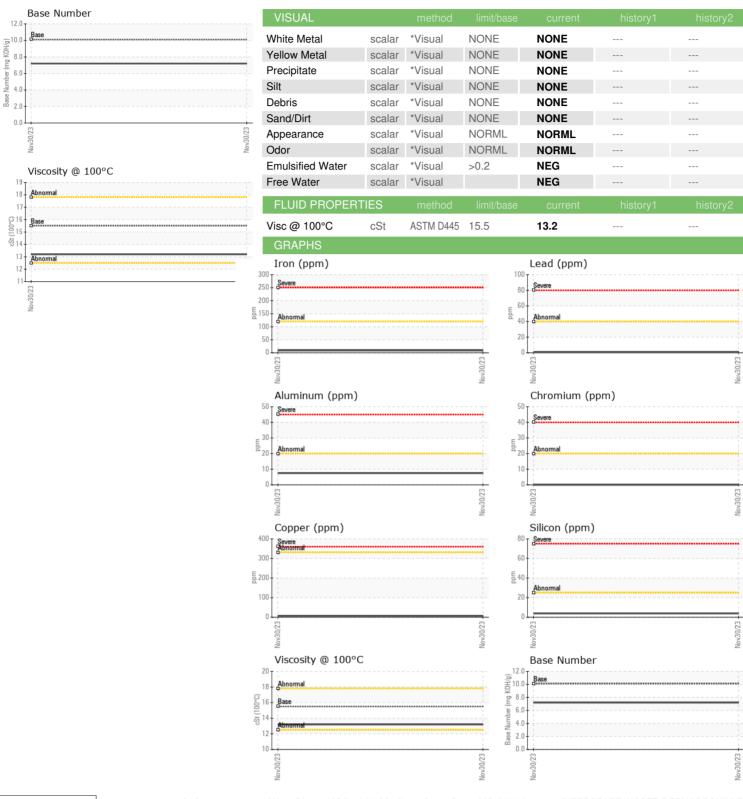
Fluid Condition

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 (1)	(GAL)			Nov2023		
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864845		
Sample Date		Client Info		30 Nov 2023		
Machine Age	hrs	Client Info		17778		
Oil Age	hrs	Client Info		17778		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	8		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	7		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	66	47		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	1000	927		
Calcium	ppm	ASTM D5185m	1050	951		
Phosphorus	ppm	ASTM D5185m	1150	776		
Zinc	ppm	ASTM D5185m	1270	958		
Sulfur	ppm	ASTM D5185m		2305		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	33		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.2		



OIL ANALYSIS REPORT







Certificate L2367

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

: 06027073 : 10776864

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0864845 Received : 06 Dec 2023 : 08 Dec 2023 Diagnosed

Diagnostician : Wes Davis

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-BERNARDSVILLE

33 OLD QUARRY ROAD BERNARDSVILLE, NJ US 07924

Contact: Pablo Chardon

PChardon@interstatewaste.com

T: F: