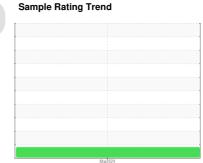


# **OIL ANALYSIS REPORT**



**WEAR** 



Machine Id Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- LTR)** 

### **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

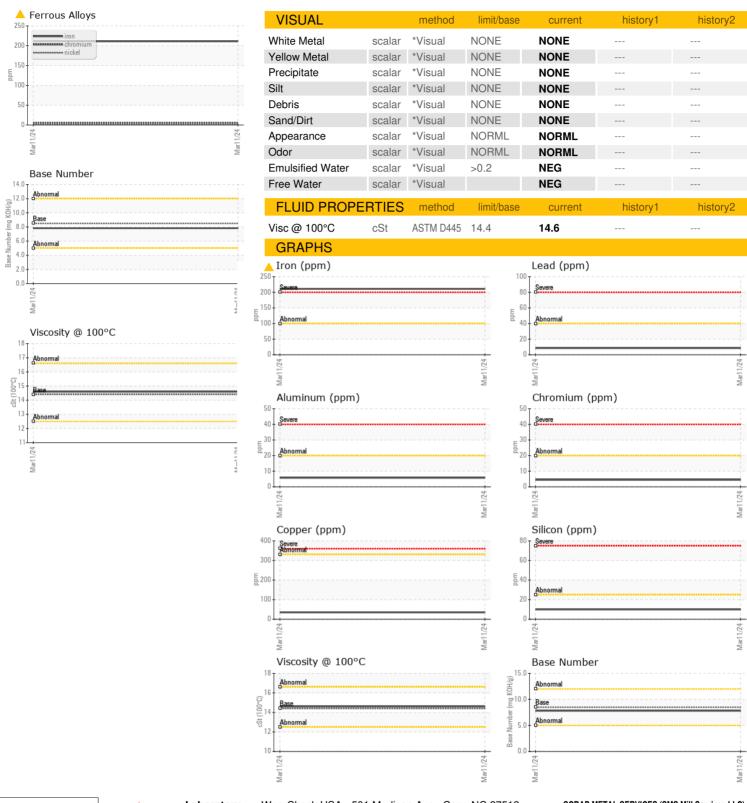
### **Fluid Condition**

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

				Mar2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113891		
Sample Date		Client Info		11 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>△</b> 211		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	3		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	9		
Copper	ppm	ASTM D5185m		35		
Tin	ppm	ASTM D5185m	>15	5		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	42		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	73 2		
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	450	978		
Calcium	ppm	ASTM D5185m	3000	1185		
	ppm	ASTM D5185m		1148		
Phosphorus Zinc	ppm	ASTM D5185m	1150 1350	1305		
Sulfur	ppm	ASTM D5185m	4250	3316		
CONTAMINAN		method	limit/base		hiotorya	hioton/2
				current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m	>158	5		
Potassium	ppm	ASTM D5185m	>20	5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	13.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.2		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.82		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No.

Lab Number : 06129569 Unique Number: 10943720 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0113891 Received : 26 Mar 2024 **Tested** : 27 Mar 2024

: 29 Mar 2024 - Don Baldridge Diagnosed

SCRAP METAL SERVICES (SMS Mill Services LLC)

250 WEST U.S. HWY 12 CHESTERTON, IN US 46304

Contact: DOMINIC WHITE dwhite@scrapmetalservices.com

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)

T: F: