

## **OIL ANALYSIS REPORT**

### Bernardsville Machine Id PETERBILT 1150

Component Diesel Engine Fluid

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### 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.

Sample Rating Trend

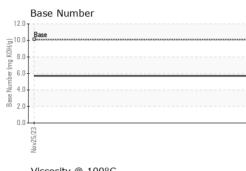


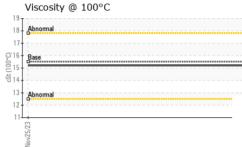
NORMAL

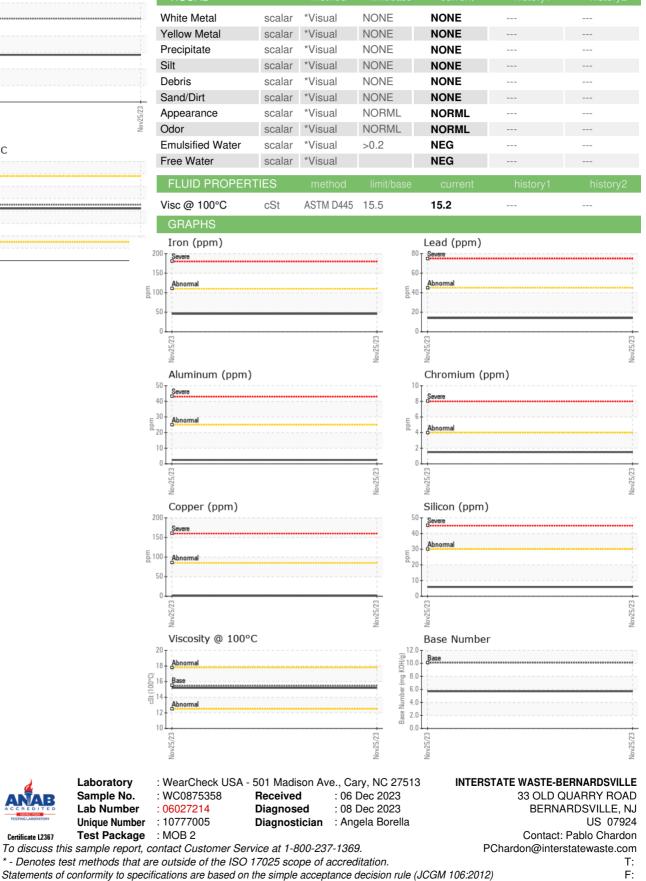
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0875358		
Sample Date		Client Info		25 Nov 2023		
Machine Age	hrs	Client Info		23496		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	,	NEG		
-						
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	46		
Chromium	ppm	ASTM D5185m	>4	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>45	14		
Copper	ppm	ASTM D5185m	>85	2		
Tin	ppm	ASTM D5185m	>4	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	66	55		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1000	590		
Calcium	ppm	ASTM D5185m	1050	1130		
Phosphorus	ppm	ASTM D5185m	1150	827		
Zinc	ppm	ASTM D5185m	1270	1035		
Sulfur	ppm	ASTM D5185m		2732		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	13.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.8		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.71		



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Certificate L2367

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