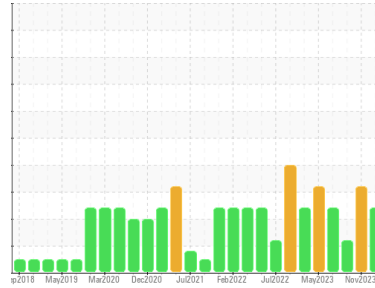




Machine Id  
**PHOENIX MIXER 263**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**



## DIAGNOSIS

**Recommendation**  
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

**Fluid Condition**  
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0109565</b>	PCA0109802	LP0000512
Sample Date	Client Info	<b>22 Dec 2023</b>	22 Nov 2023	28 Aug 2023
Machine Age	hrs	<b>7985</b>	7985	7985
Oil Age	hrs	<b>7985</b>	500	0
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>SEVERE</b>	SEVERE	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>2</b>	19	5
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>1</b>	1	0
Lead	ppm ASTM D5185m >40	<b>4</b>	▲ 58	1
Copper	ppm ASTM D5185m >330	<b>0</b>	2	0
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	<b>28</b>	11	4
Barium	ppm ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 100	<b>32</b>	32	59
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 450	<b>91</b>	354	997
Calcium	ppm ASTM D5185m 3000	<b>1874</b>	1542	1139
Phosphorus	ppm ASTM D5185m 1150	<b>896</b>	824	1049
Zinc	ppm ASTM D5185m 1350	<b>1010</b>	992	1299
Sulfur	ppm ASTM D5185m 4250	<b>3256</b>	2732	3890

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>4</b>	4	4
Sodium	ppm ASTM D5185m >158	<b>0</b>	0	1
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	3
Fuel	% ASTM D3524 >5	● <b>9.2</b>	● 16.2	▲ 7.2

## INFRA-RED

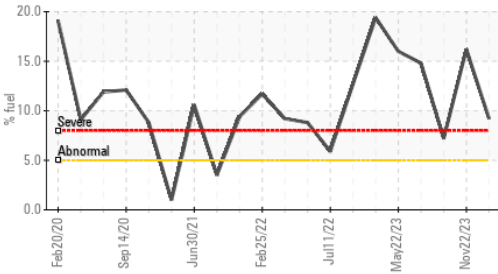
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.6</b>	2.2	0.7
Nitration	Abs/cm *ASTM D7624 >20	<b>7.1</b>	9.8	6.1
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>17.4</b>	24.9	18.9

## FLUID DEGRADATION

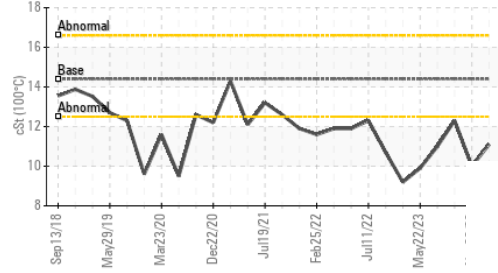
method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>11.2</b>	18.9	14.2
Base Number (BN)	mg KOH/g ASTM D2896 8.5	<b>8.90</b>	6.10	8.46

# OIL ANALYSIS REPORT

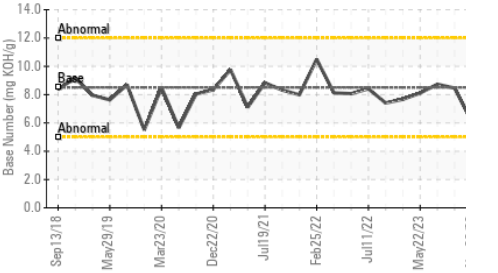
## Fuel Dilution



## Viscosity @ 100°C



## Base Number



## VISUAL

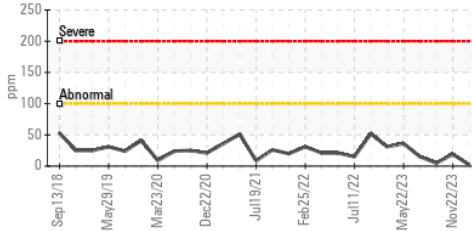
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

## FLUID PROPERTIES

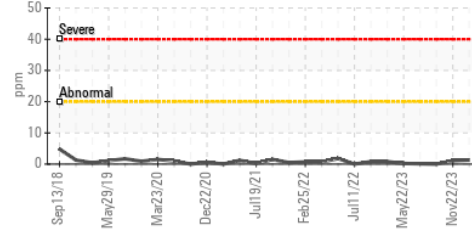
	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.1	▲ 10.0

## GRAPHS

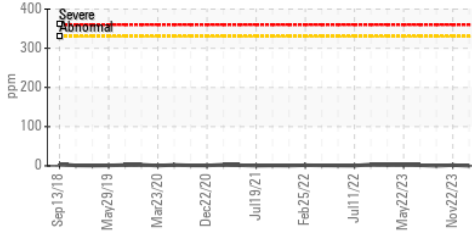
### Iron (ppm)



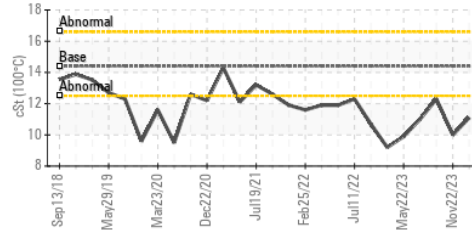
### Aluminum (ppm)



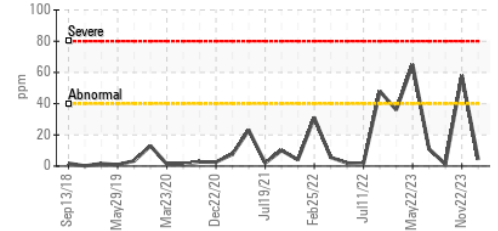
### Copper (ppm)



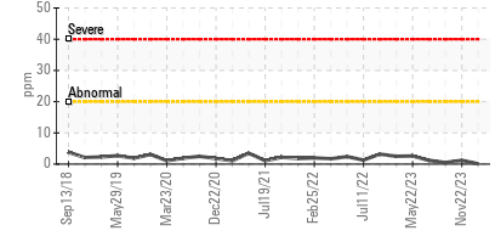
### Viscosity @ 100°C



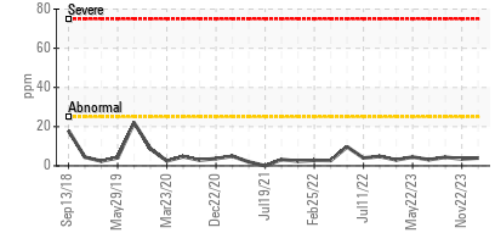
### Lead (ppm)



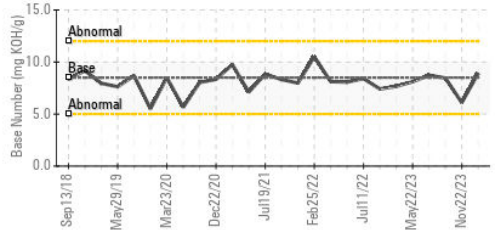
### Chromium (ppm)



### Silicon (ppm)



### Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109565 **Recieved** : 12 Jan 2024  
**Lab Number** : 06060407 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831789 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**TRESCA BROS SAND & GRAVEL INC**

66 MAIN ST  
MILLIS, MA  
US 02054

Contact: FRAN ROSSI  
frossi@trescaconcrete.com

T: (508)376-2957  
F: (508)376-4333

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)