

Machine Id  
**PHOENIX MIXER 269**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0109798</b>	PCA0109798	LP0000165
Sample Date		Client Info		<b>02 Nov 2023</b>	02 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		<b>12317</b>	12317	11728
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>500</b>	500	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>84</b>	25	40
Chromium	ppm	ASTM D5185m	>4	<b>3</b>	<1	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	<1	<1
Lead	ppm	ASTM D5185m	>50	<b>4</b>	5	8
Copper	ppm	ASTM D5185m	>55	<b>43</b>	<1	1
Tin	ppm	ASTM D5185m	>4	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

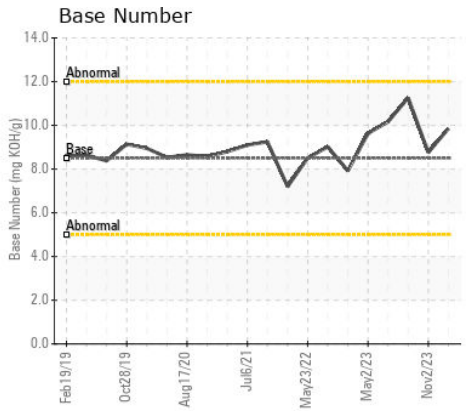
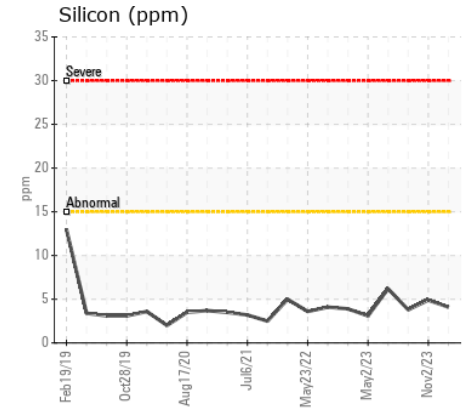
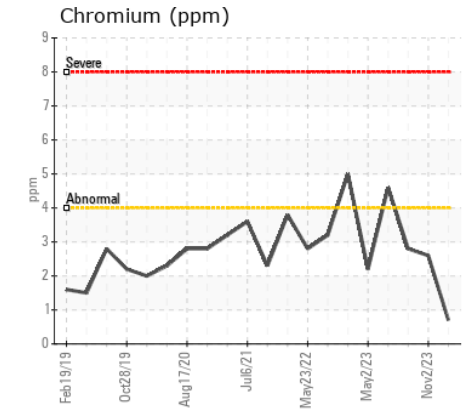
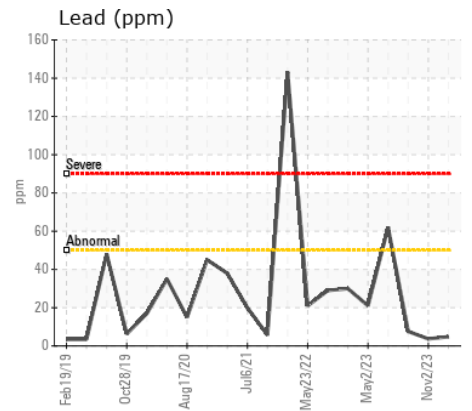
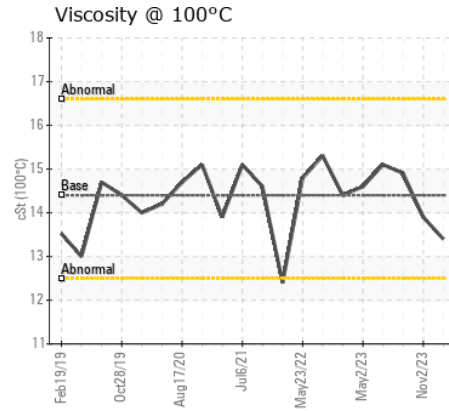
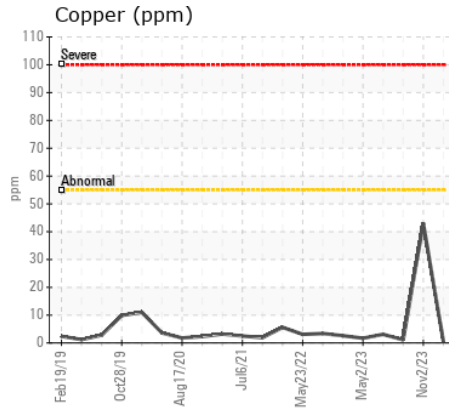
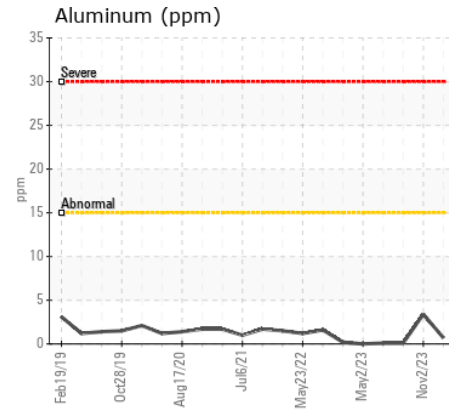
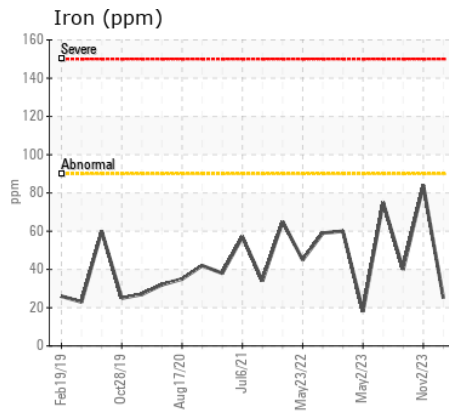
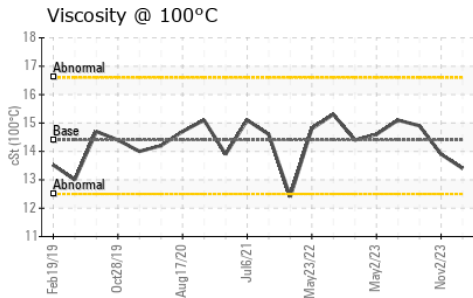
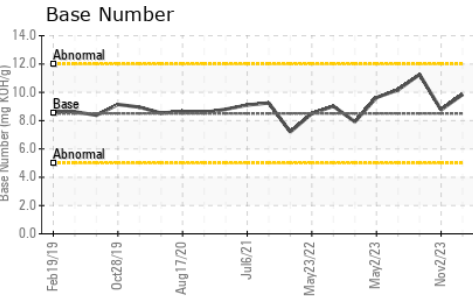
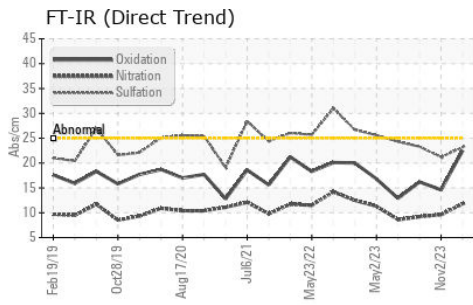
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	3
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>1</b>	1.5	2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.8</b>	9.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.2</b>	21.2	23.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m	>216	<b>7</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>8</b>	25	7
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>60</b>	57	70
Manganese	ppm	ASTM D5185m		<b>1</b>	0	<1
Magnesium	ppm	ASTM D5185m	450	<b>959</b>	425	1112
Calcium	ppm	ASTM D5185m	3000	<b>1225</b>	1842	1353
Phosphorus	ppm	ASTM D5185m	1150	<b>1034</b>	1091	1231
Zinc	ppm	ASTM D5185m	1350	<b>1283</b>	1332	1522
Sulfur	ppm	ASTM D5185m	4250	<b>3323</b>	3643	4217
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.5</b>	14.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.85</b>	8.76	11.26
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.4</b>	13.9	14.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109798  
**Lab Number** : 06216363  
**Unique Number** : 11089227  
**Test Package** : MOB 2  
**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 23 Jun 2024 - Don Baldrige

**TRESCA BROS SAND & GRAVEL INC**  
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 US 02054  
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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)