

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

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.

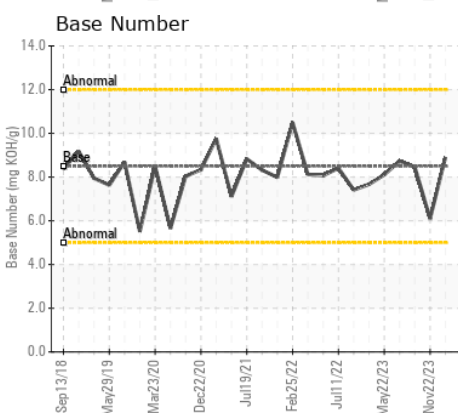
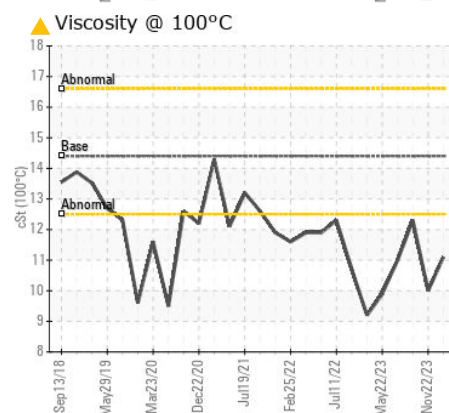
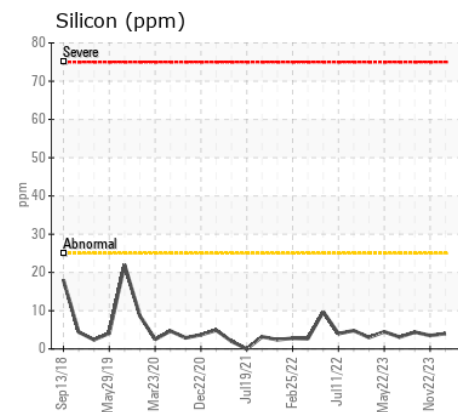
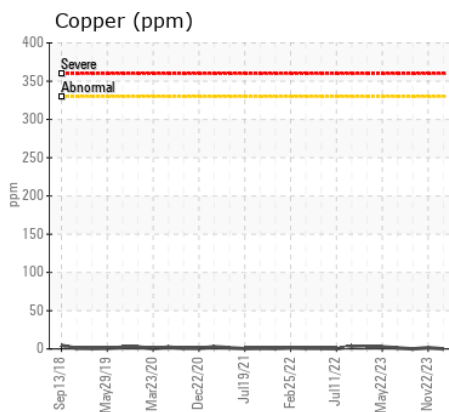
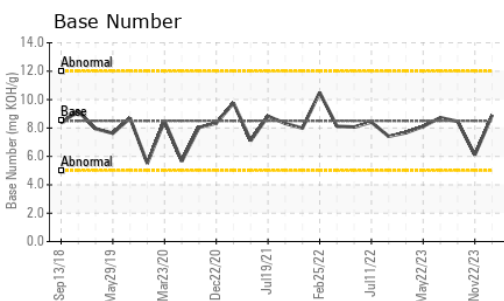
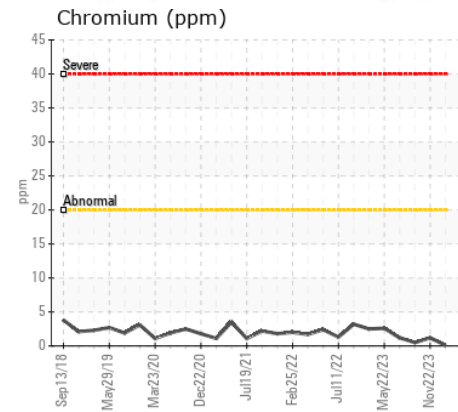
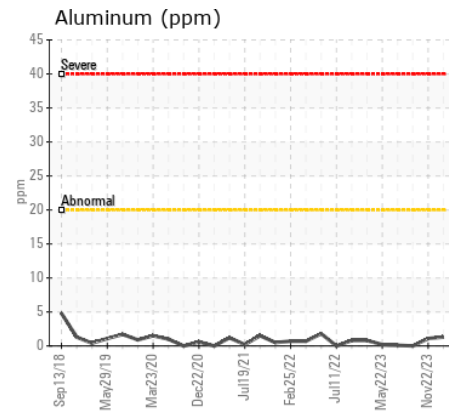
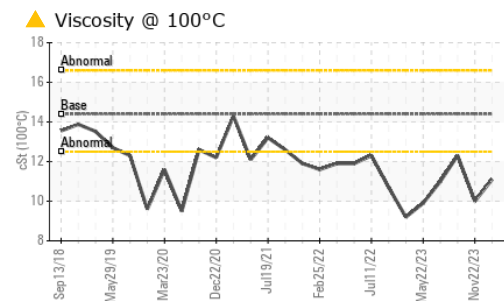
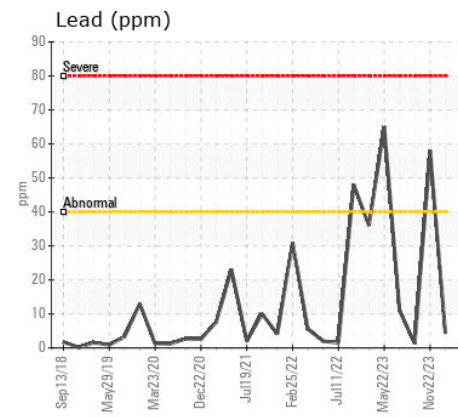
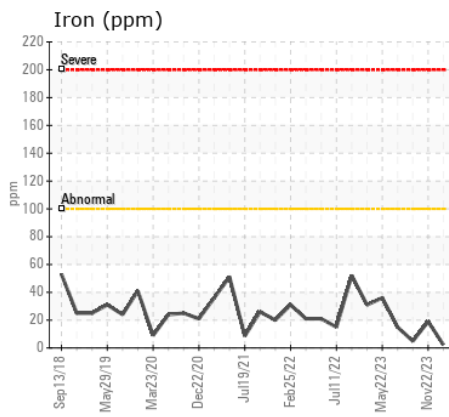
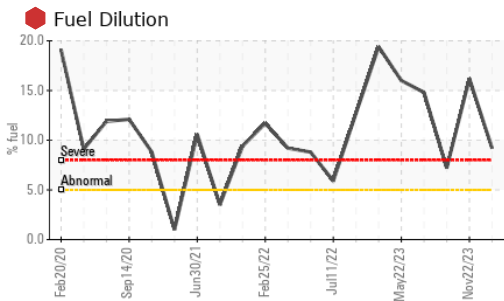
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0109565	PCA0109802	LP0000512
Sample Date		Client Info		22 Dec 2023	22 Nov 2023	28 Aug 2023
Machine Age	hrs	Client Info		7985	7985	7985
Oil Age	hrs	Client Info		7985	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>100	2	19	5
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	0
Lead	ppm	ASTM D5185m	>40	4	▲ 58	1
Copper	ppm	ASTM D5185m	>330	0	2	0
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	4	4
Potassium	ppm	ASTM D5185m	>20	<1	0	3
Fuel	%	ASTM D3524	>5	● 9.2	● 16.2	▲ 7.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	2.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.1	9.8	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	24.9	18.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>158	0	0	1
Boron	ppm	ASTM D5185m	250	28	11	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	32	32	59
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	91	354	997
Calcium	ppm	ASTM D5185m	3000	1874	1542	1139
Phosphorus	ppm	ASTM D5185m	1150	896	824	1049
Zinc	ppm	ASTM D5185m	1350	1010	992	1299
Sulfur	ppm	ASTM D5185m	4250	3256	2732	3890
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.2	18.9	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.90	6.10	8.46
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.1	▲ 10.0	▲ 12.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109565 **Received** : 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

Certificate L2367
 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)