

Machine Id
ADVANCE MIXER 204
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0109572	LP0000902	LP0000037
Sample Date		Client Info		08 Mar 2024	26 Sep 2023	08 Jun 2023
Machine Age	hrs	Client Info		40000	40000	40000
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	27	34	55
Chromium	ppm	ASTM D5185m	>4	1	2	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	2	1
Lead	ppm	ASTM D5185m	>50	16	26	▲ 50
Copper	ppm	ASTM D5185m	>55	2	0	2
Tin	ppm	ASTM D5185m	>4	<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

CONTAMINATION

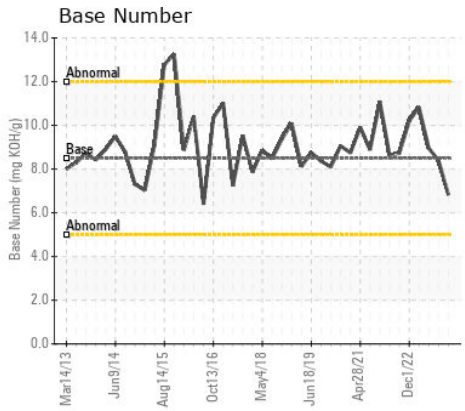
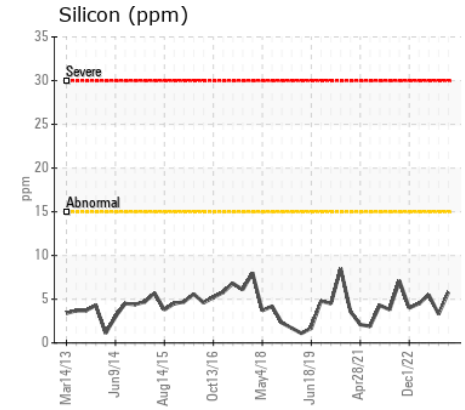
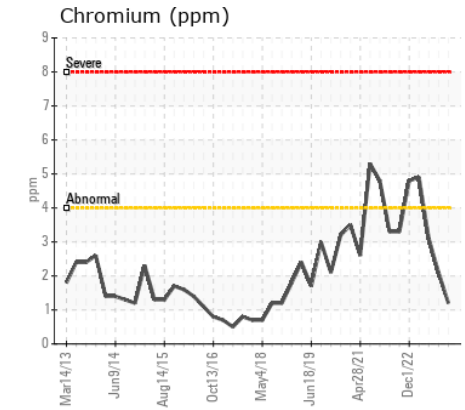
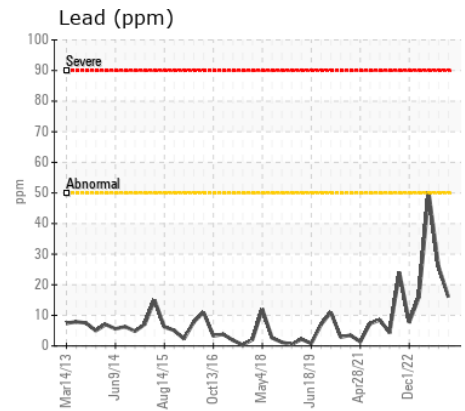
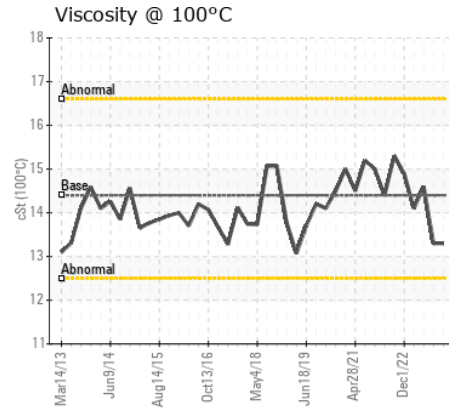
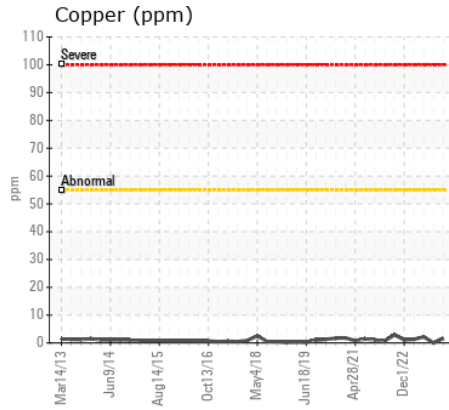
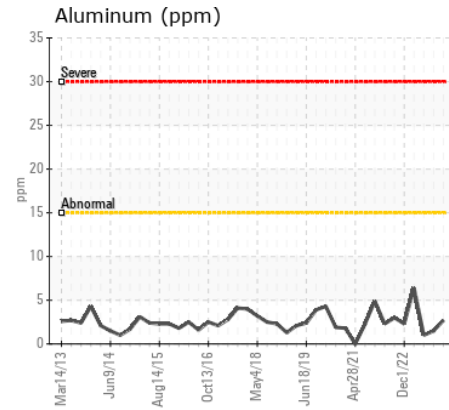
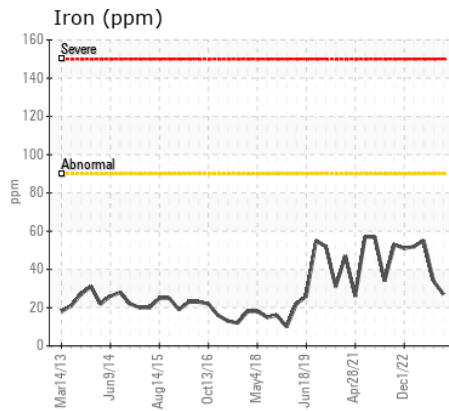
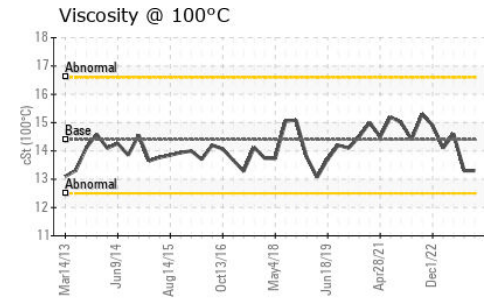
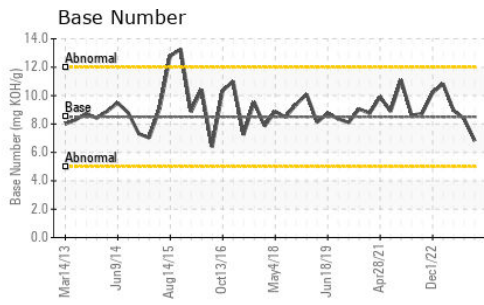
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	6	3	6
Potassium	ppm	ASTM D5185m	>20	2	3	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1.4	2.2	2.2
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.6	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	22.2	25.4
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

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	>158	2	2	3
Boron	ppm	ASTM D5185m	250	25	9	22
Barium	ppm	ASTM D5185m	10	0	4	0
Molybdenum	ppm	ASTM D5185m	100	53	56	76
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	146	750	624
Calcium	ppm	ASTM D5185m	3000	2020	1253	1669
Phosphorus	ppm	ASTM D5185m	1150	1032	1065	1092
Zinc	ppm	ASTM D5185m	1350	1135	1288	1331
Sulfur	ppm	ASTM D5185m	4250	3529	3170	3990
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.2	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.82	8.39	8.95
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.3	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109572
Lab Number : 06121744
Unique Number : 10930577
Test Package : MOB 2

Received : 18 Mar 2024
Tested : 19 Mar 2024
Diagnosed : 19 Mar 2024 - Wes Davis

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)