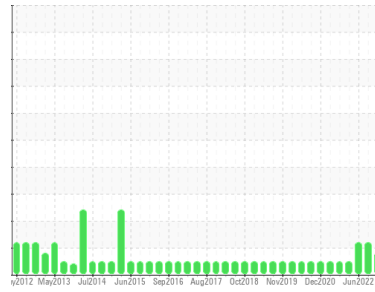




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
ADVANCE MIXER 149
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (10 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0661432	WC0721314	WC0542522
Sample Date	Client Info		12 Jan 2023	01 Dec 2022	02 Jun 2022
Machine Age	hrs	Client Info	40000	40000	40000
Oil Age	hrs	Client Info	500	500	500
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			MARGINAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >105	34	61	50
Chromium	ppm	ASTM D5185m >5	<1	1	<1
Nickel	ppm	ASTM D5185m >4	0	<1	<1
Titanium	ppm	ASTM D5185m >2	0	<1	0
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >10	<1	3	2
Lead	ppm	ASTM D5185m >15	<1	<1	1
Copper	ppm	ASTM D5185m >140	6	19	7
Tin	ppm	ASTM D5185m >4	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	4	9	11
Barium	ppm	ASTM D5185m 10	0	0	0
Molybdenum	ppm	ASTM D5185m 100	56	60	57
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 450	861	845	823
Calcium	ppm	ASTM D5185m 3000	1038	1048	978
Phosphorus	ppm	ASTM D5185m 1150	924	926	910
Zinc	ppm	ASTM D5185m 1350	1076	1134	1119
Sulfur	ppm	ASTM D5185m 4250	3374	3337	2838

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	8	4
Sodium	ppm	ASTM D5185m >158	0	3	<1
Potassium	ppm	ASTM D5185m >20	0	<1	0
Fuel	%	ASTM D3524 >5	▲ 3.1	▲ 5.3	▲ 5.9

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1	1.4	1.2
Nitration	Abs/cm	*ASTM D7624 >20	6.6	8.0	6.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.2	21.4	19.5

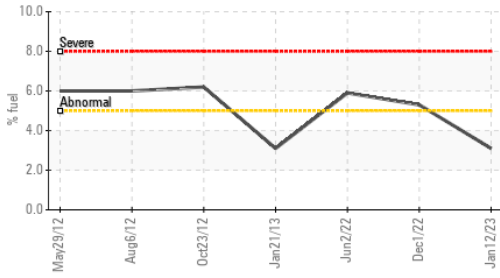
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.6	14.7	14.3
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	9.59	9.63	8.54

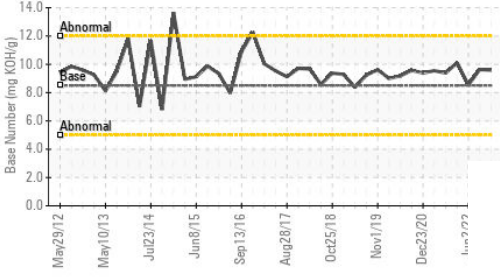


OIL ANALYSIS REPORT

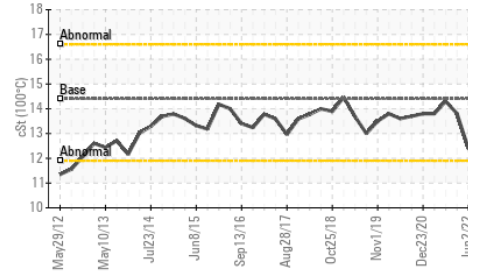
▲ Fuel Dilution



Base Number



Viscosity @ 100°C

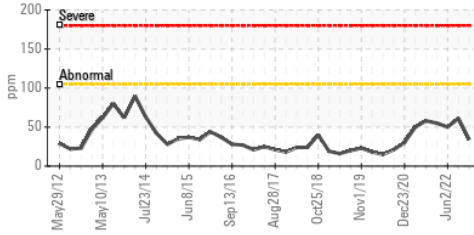


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

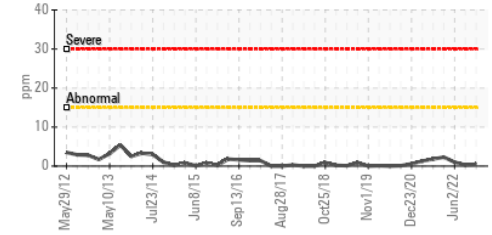
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	▲ 12.4 ▲ 12.4

GRAPHS

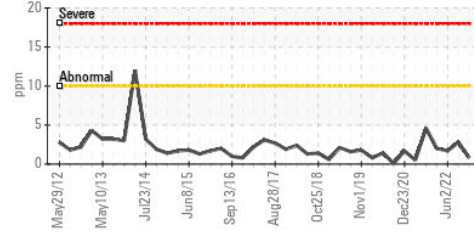
Iron (ppm)



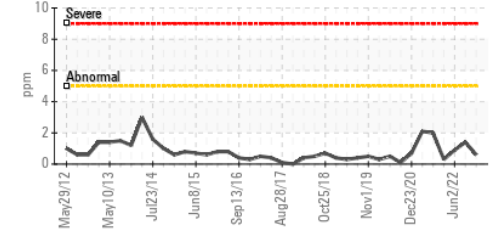
Lead (ppm)



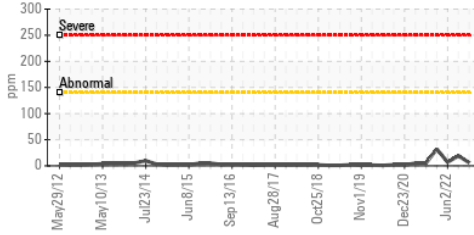
Aluminum (ppm)



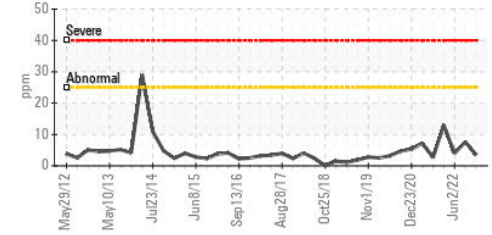
Chromium (ppm)



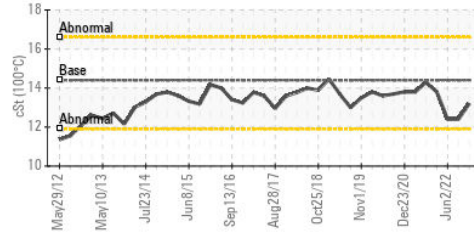
Copper (ppm)



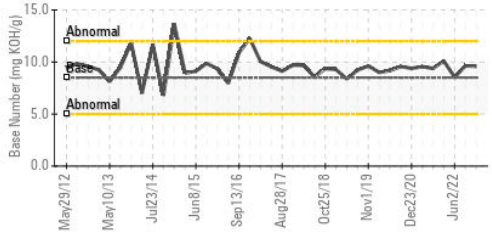
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0661432 **Received** : 02 Feb 2023
Lab Number : 05757840 **Diagnosed** : 04 Feb 2023
Unique Number : 10322447 **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)