



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
BAKER 8" Quarry Pump (S/N 1R9AA1213DG296038)
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	LP0001033	---	---
Sample Date	Client Info	11 May 2024	---	---
Machine Age	hrs Client Info	12034	---	---
Oil Age	hrs Client Info	568	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >2.1	<1.0	---	---
Water	WC Method >0.21	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >51	▲ 66	---	---
Chromium ppm	ASTM D5185m >11	1	---	---
Nickel ppm	ASTM D5185m >5	1	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m >3	0	---	---
Aluminum ppm	ASTM D5185m >31	6	---	---
Lead ppm	ASTM D5185m >26	5	---	---
Copper ppm	ASTM D5185m >26	2	---	---
Tin ppm	ASTM D5185m >4	<1	---	---
Vanadium ppm	ASTM D5185m	<1	---	---
Cadmium ppm	ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 250	167	---	---
Barium ppm	ASTM D5185m 10	1	---	---
Molybdenum ppm	ASTM D5185m 100	62	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m 450	250	---	---
Calcium ppm	ASTM D5185m 3000	1852	---	---
Phosphorus ppm	ASTM D5185m 1150	980	---	---
Zinc ppm	ASTM D5185m 1350	1172	---	---
Sulfur ppm	ASTM D5185m 4250	3228	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >22	7	---	---
Sodium ppm	ASTM D5185m >216	5	---	---
Potassium ppm	ASTM D5185m >20	4	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	*ASTM D7844 >3	▲ 3.8	---	---
Nitration	*ASTM D7624 >20	10.5	---	---
Sulfation	*ASTM D7415 >30	26.0	---	---

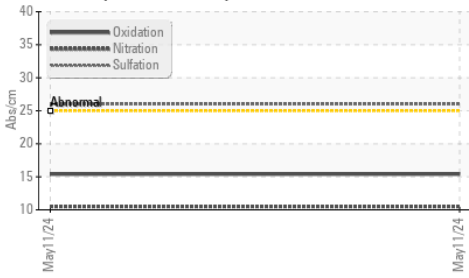
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414 >25	15.4	---	---
Base Number (BN)	mg KOH/g ASTM D2896 8.5	8.48	---	---



OIL ANALYSIS REPORT

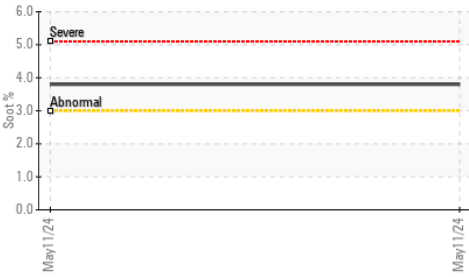
▲ FT-IR (Direct Trend)



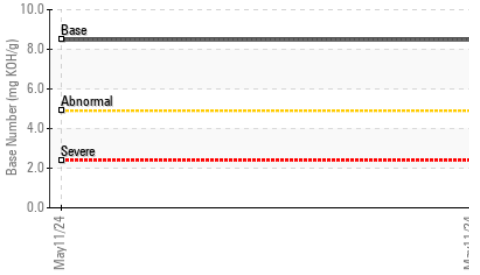
▲ Ferrous Alloys



▲ Soot %



Base Number



Viscosity @ 100°C

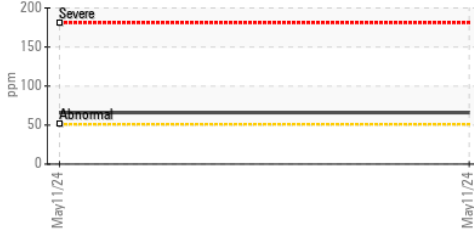


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

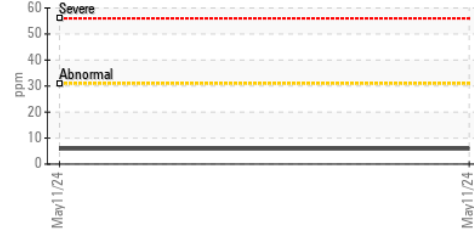
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	15.5	---

GRAPHS

▲ Iron (ppm)



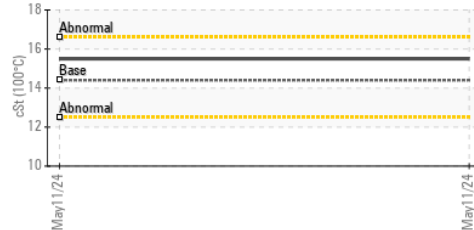
Aluminum (ppm)



Copper (ppm)



Viscosity @ 100°C



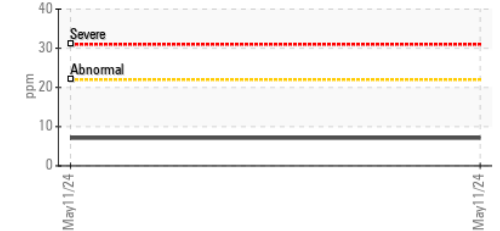
Lead (ppm)



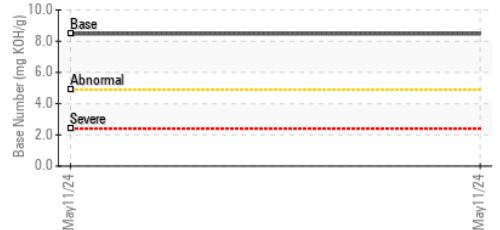
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001033
Lab Number : 06194690
Unique Number : 11056813
Test Package : MOB 2

Received : 29 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Don Baldrige

TRESCA BROS SAND & GRAVEL INC
 66 MAIN ST
 MILLIS, MA
 US 02054

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)

Contact: JACK GALIANO
 jgaliano@trescaconcrete.com

T: (508)376-2957

F: (508)376-4333