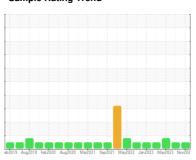


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



PHOENIX MIXER 269

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

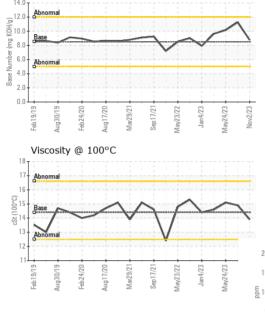
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109798	LP0000165	LP0000322
Sample Date		Client Info		02 Nov 2023	15 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		12317	11728	11143
Oil Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	25	40	75
Chromium	ppm	ASTM D5185m	>4	<1	3	5
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	<1	<1	<1
Lead	ppm	ASTM D5185m	>50	5	8	△ 62
Copper	ppm	ASTM D5185m	>55	<1	1	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 250	current 25	history1 7	history2 15
	ppm					
Boron		ASTM D5185m	250	25	7	15
Boron Barium	ppm	ASTM D5185m ASTM D5185m	250 10 100	25 0	7	15 0 74 1
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	25 0 57	7 0 70 <1 1112	15 0 74 1 868
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	25 0 57 0 425 1842	7 0 70 <1 1112 1353	15 0 74 1 868 1505
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	25 0 57 0 425 1842 1091	7 0 70 <1 1112 1353 1231	15 0 74 1 868 1505 1137
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	25 0 57 0 425 1842 1091 1332	7 0 70 <1 1112 1353 1231 1522	15 0 74 1 868 1505 1137 1383
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	25 0 57 0 425 1842 1091	7 0 70 <1 1112 1353 1231 1522 4217	15 0 74 1 868 1505 1137
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250	25 0 57 0 425 1842 1091 1332	7 0 70 <1 1112 1353 1231 1522	15 0 74 1 868 1505 1137 1383 3859 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15	25 0 57 0 425 1842 1091 1332 3643	7 0 70 <1 1112 1353 1231 1522 4217 history1	15 0 74 1 868 1505 1137 1383 3859 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216	25 0 57 0 425 1842 1091 1332 3643 current 4	7 0 70 <1 1112 1353 1231 1522 4217 history1 4	15 0 74 1 868 1505 1137 1383 3859 history2 6 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216	25 0 57 0 425 1842 1091 1332 3643 current	7 0 70 <1 1112 1353 1231 1522 4217 history1	15 0 74 1 868 1505 1137 1383 3859 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216	25 0 57 0 425 1842 1091 1332 3643 current 4	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1	15 0 74 1 868 1505 1137 1383 3859 history2 6 3 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216 >20 limit/base >6	25 0 57 0 425 1842 1091 1332 3643 current 4 2 1 current 1.5	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1 2	15 0 74 1 868 1505 1137 1383 3859 history2 6 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216 >20 limit/base >6	25 0 57 0 425 1842 1091 1332 3643 current 4 2 1	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1 2 9.2	15 0 74 1 868 1505 1137 1383 3859 history2 6 3 0 history2 3 8.6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216 >20 limit/base >6	25 0 57 0 425 1842 1091 1332 3643 current 4 2 1 current 1.5	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1 2	15 0 74 1 868 1505 1137 1383 3859 history2 6 3 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216 >20 limit/base	25 0 57 0 425 1842 1091 1332 3643 current 4 2 1 current 1.5 9.6	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1 2 9.2	15 0 74 1 868 1505 1137 1383 3859 history2 6 3 0 history2 3 8.6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	250 10 100 450 3000 1150 1350 4250 limit/base >15 >216 >20 limit/base >6 >20 >30 limit/base	25 0 57 0 425 1842 1091 1332 3643 current 4 2 1 current 1.5 9.6 21.2	7 0 70 <1 1112 1353 1231 1522 4217 history1 4 2 3 history1 2 9.2 23.3	15 0 74 1 868 1505 1137 1383 3859 history2 6 3 0 history2 3 8.6 24.3



Base Number

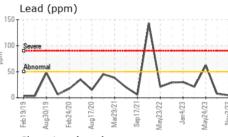
OIL ANALYSIS REPORT

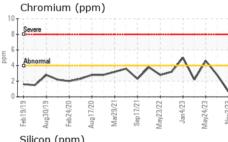


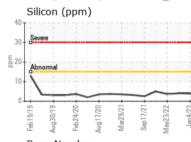
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIES	mathad	limit/bass	ourront.	historyd	biotom/0

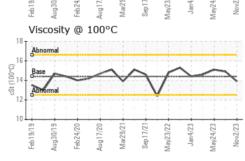
FLUID FROF	ENTIES	method			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	14.9	15.1

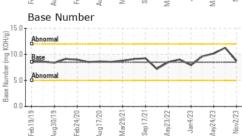
Iron (pp	om)							
Severe								
100 - Abnormal							_	
50			~/	\	\sim	\neg		<
0	-	-					Y :	Η,
Feb19/19 Aug30/19	Feb24/20	Aug17/20	Mar29/2	Sep17/21	May23/22	Jan4/23	May24/23	
4				Š	ĕ	,	ĕ	
Aluminu	ım (ppm))					
2								
30 - Severe								
20 Ahnormal								
Abnormal								













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0109798 : 06006527

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Copper (ppm)

100

E 60 40

> Diagnosed : 10740289

Received : 13 Nov 2023 : 15 Nov 2023 : Wes Davis Diagnostician

TRESCA BROS SAND & GRAVEL INC

66 MAIN ST MILLIS, MA US 02054

T: (508)376-2957

F: (508)376-4333

Contact: FRAN ROSSI frossi@trescaconcrete.com

* - 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)

Submitted By: JOHN HATZISTEFANOU