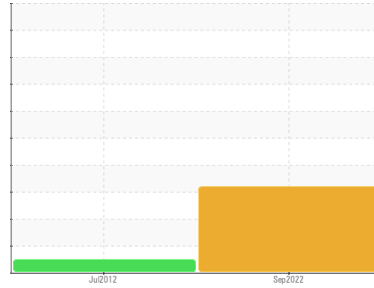




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
FORD 18
 Component
Gasoline Engine
 Fluid
NOT GIVEN (5 GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0721491	WCM2179104	---
Sample Date	Client Info	03 Sep 2022	17 Jul 2012	---
Machine Age	mls	Client Info	45017	109108
Oil Age	mls	Client Info	3000	2500
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>150	▲ 223	48
Chromium	ppm	ASTM D5185m	>20	9	6
Nickel	ppm	ASTM D5185m	>5	4	<1
Titanium	ppm	ASTM D5185m		<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1
Aluminum	ppm	ASTM D5185m	>40	▲ 14	10
Lead	ppm	ASTM D5185m	>50	14	6
Copper	ppm	ASTM D5185m	>155	10	11
Tin	ppm	ASTM D5185m	>10	1	2
Antimony	ppm	ASTM D5185m		---	<1
Vanadium	ppm	ASTM D5185m		0	<1
Cadmium	ppm	ASTM D5185m		0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		14	5
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		82	21
Manganese	ppm	ASTM D5185m		2	<1
Magnesium	ppm	ASTM D5185m		967	152
Calcium	ppm	ASTM D5185m		1181	1524
Phosphorus	ppm	ASTM D5185m		1072	869
Zinc	ppm	ASTM D5185m		1297	872
Sulfur	ppm	ASTM D5185m		3349	2082

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	▲ 47	16
Sodium	ppm	ASTM D5185m	>400	6	295
Potassium	ppm	ASTM D5185m	>20	6	0

INFRA-RED

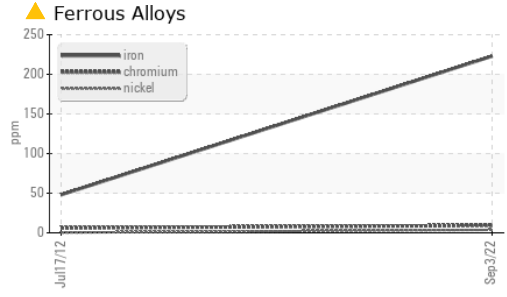
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.2	8.
Sulfation	Abs./1mm	*ASTM D7415	>30	23.2	18.

FLUID DEGRADATION

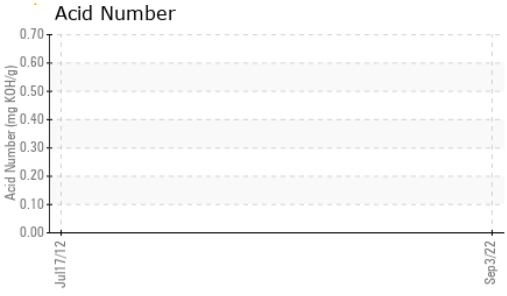
method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	*ASTM D7414	>25	20.0	11.
Acid Number (AN)	mg KOH/g	ASTM D8045		---	0.631
Base Number (BN)	mg KOH/g	ASTM D2896		8.74	---



OIL ANALYSIS REPORT

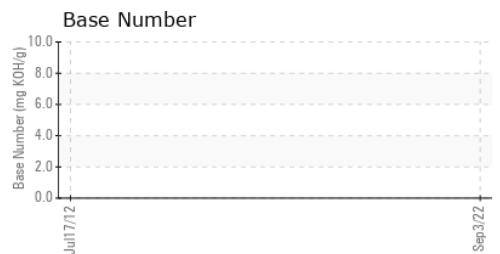
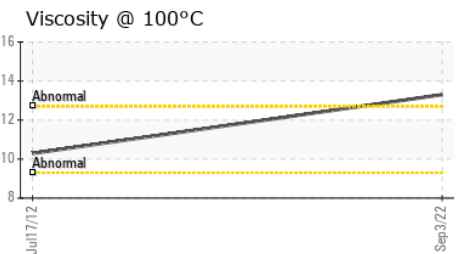
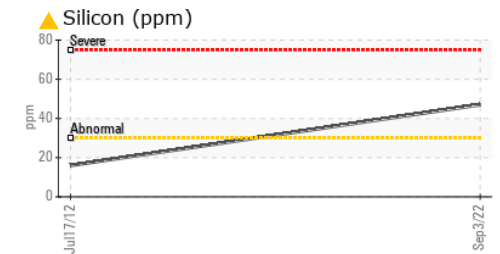
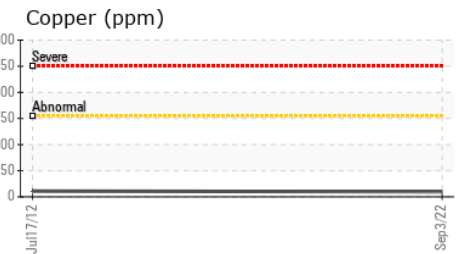
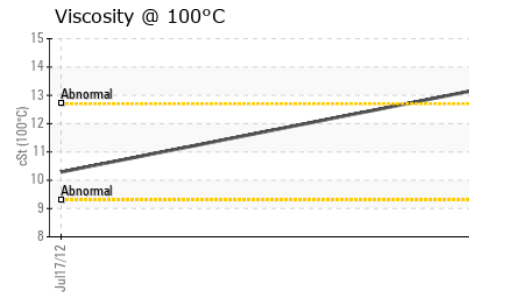
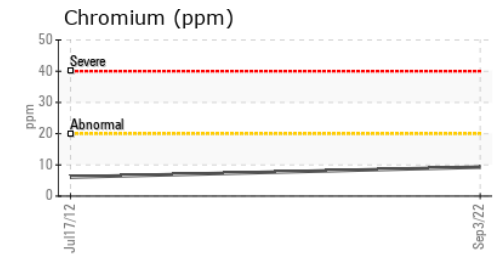
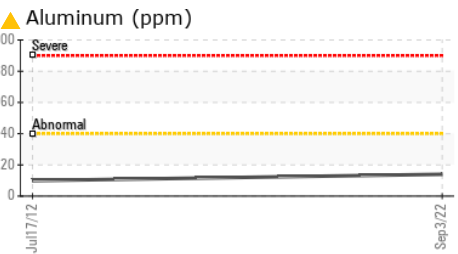
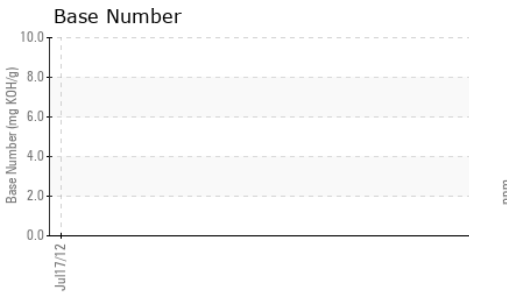
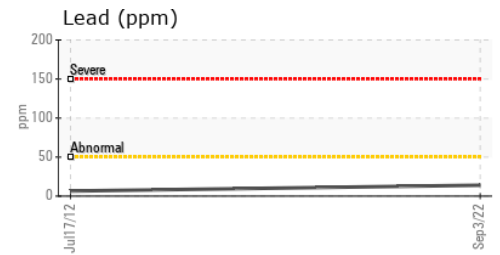
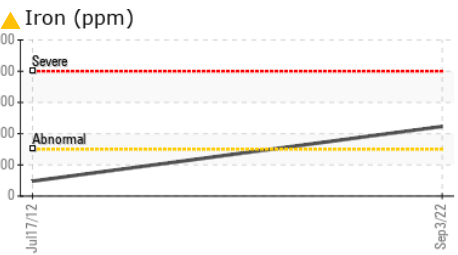
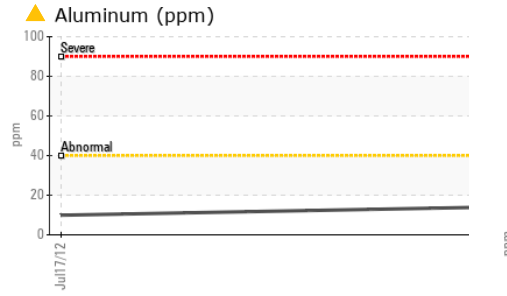


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.3	10.29	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0721491 **Received** : 20 Sep 2022
Lab Number : 05646703 **Diagnosed** : 22 Sep 2022
Unique Number : 10141242 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: TBN)

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 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)