



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CASE IH 540 QT CASE IH 540 QT
 Component
Front Diesel Engine
 Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05668935	TR05490177	---
Sample Date		Client Info		11 Oct 2022	10 Oct 2021	---
Machine Age	hrs	Client Info		3884	3500	---
Oil Age	hrs	Client Info		395	580	---
Filter Age	hrs	Client Info		395	580	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	35	---
Chromium	ppm	ASTM D5185m	>20	2	1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	5	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	4	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	7	5	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

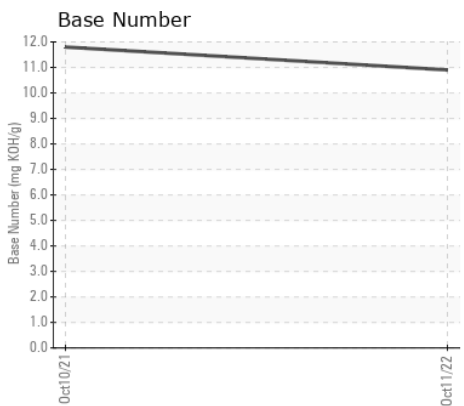
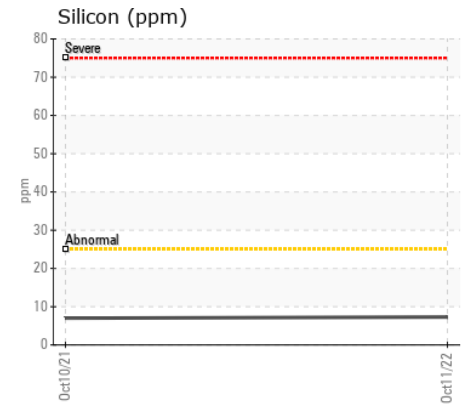
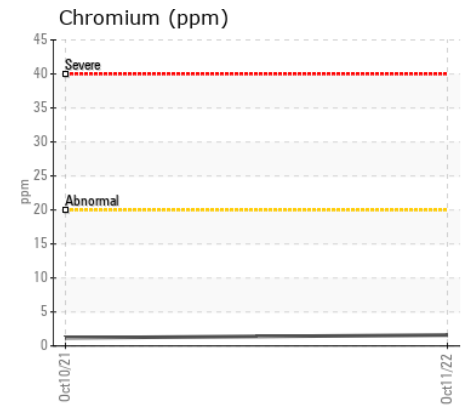
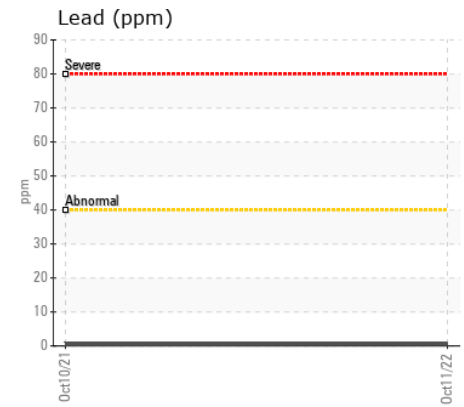
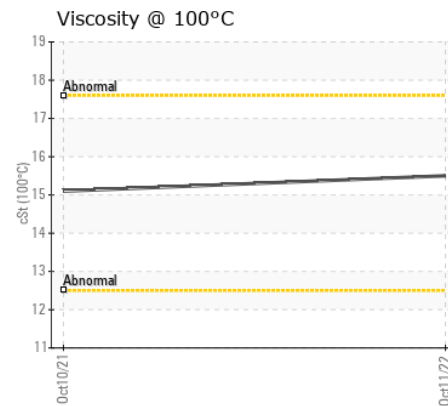
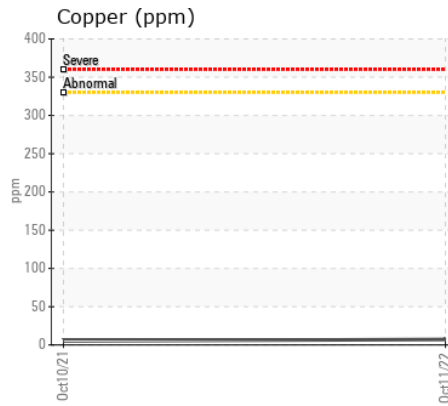
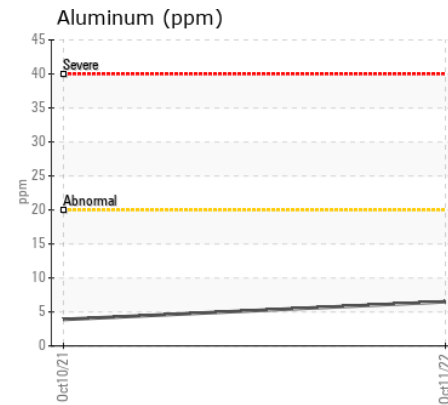
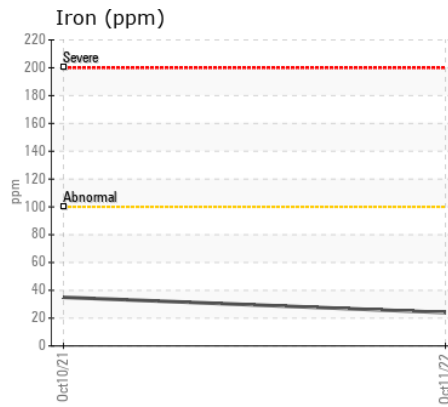
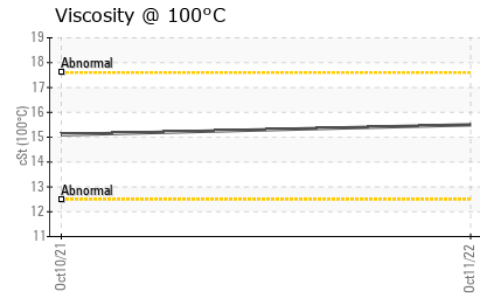
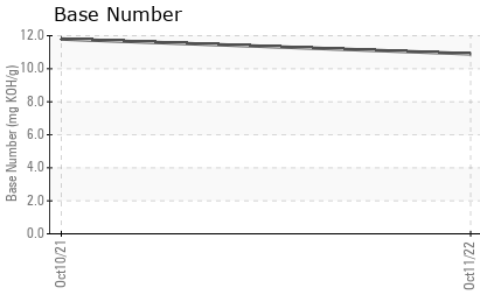
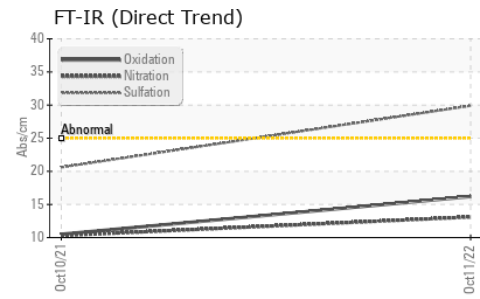
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	7	---
Potassium	ppm	ASTM D5185m	>20	0	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	13.1	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.9	20.6	---
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	---

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		4	2	---
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		131	131	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		36	22	---
Calcium	ppm	ASTM D5185m		4637	4519	---
Phosphorus	ppm	ASTM D5185m		881	954	---
Zinc	ppm	ASTM D5185m		1099	1153	---
Sulfur	ppm	ASTM D5185m		4583	4162	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	10.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.9	11.8	---
Visc @ 100°C	cSt	ASTM D445		15.5	15.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR05668935
Lab Number : 05668935
Unique Number : 10178505
Test Package : MOB 2
Received : 17 Oct 2022
Tested : 19 Oct 2022
Diagnosed : 19 Oct 2022 - Don Baldrige

SLATER BROS FARM LLC
 10001 CANAL RD
 HEBRON, OH
 US 43025
 Contact: LARRY HUMPHREY

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

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F: