



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PETERBILT 389 215**

Component  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (12 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05668934	TR05360256	---
Sample Date		Client Info		19 Sep 2022	22 Sep 2021	---
Machine Age		Client Info		293000	0	---
Oil Age		Client Info		21000	0	---
Filter Age		Client Info		21000	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	SEVERE	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	18	▲ 399	---
Chromium	ppm	ASTM D5185m	>4	2	▲ 7	---
Nickel	ppm	ASTM D5185m	>2	0	3	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	5	12	---
Lead	ppm	ASTM D5185m	>45	2	▲ 622	---
Copper	ppm	ASTM D5185m	>85	12	▲ 124	---
Tin	ppm	ASTM D5185m	>4	<1	▲ 17	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

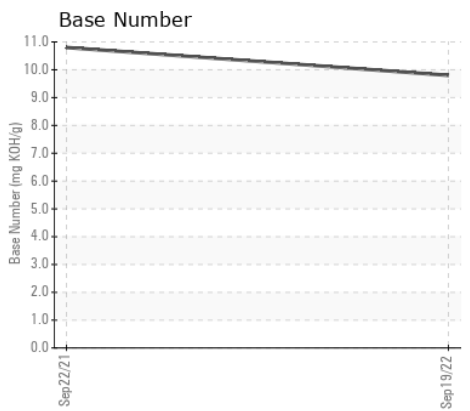
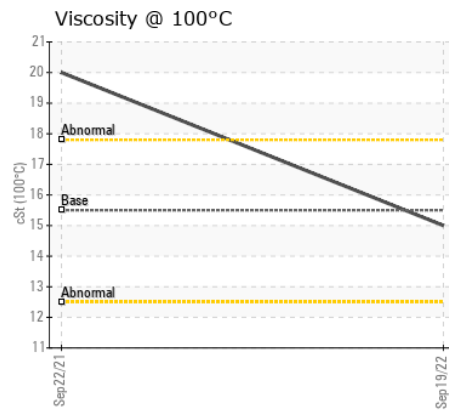
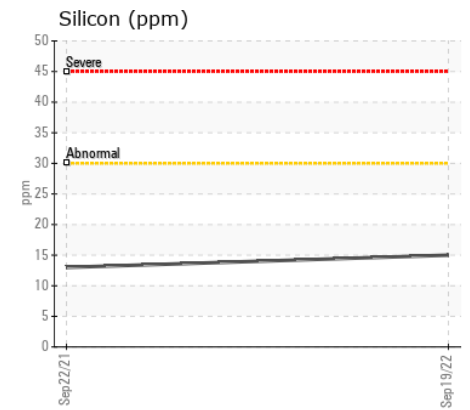
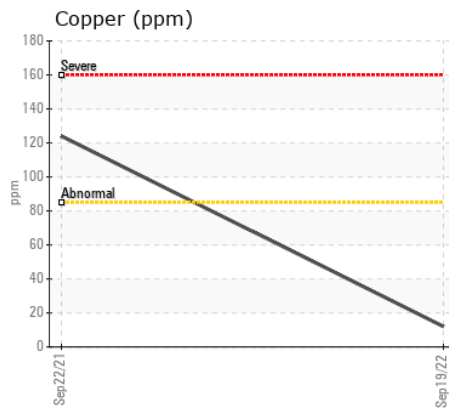
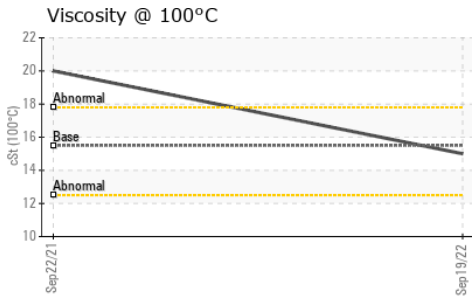
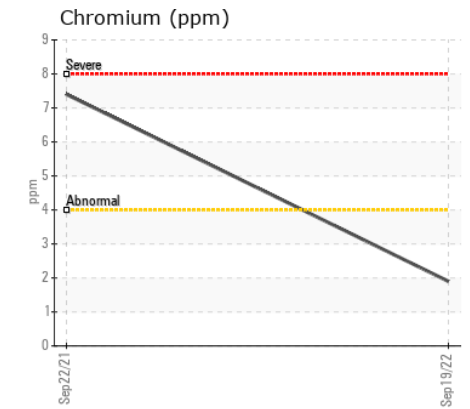
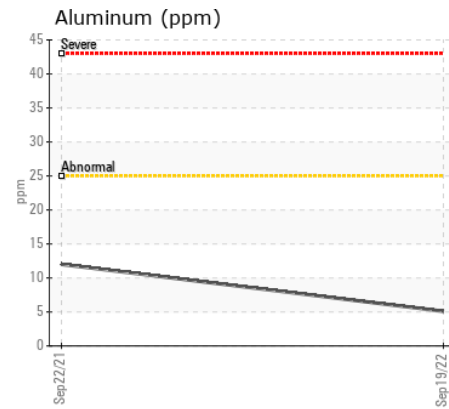
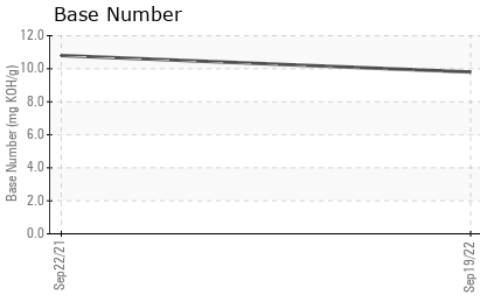
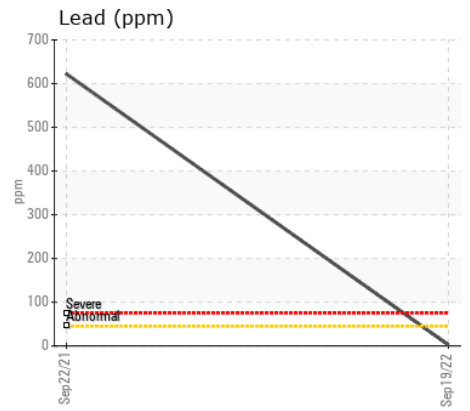
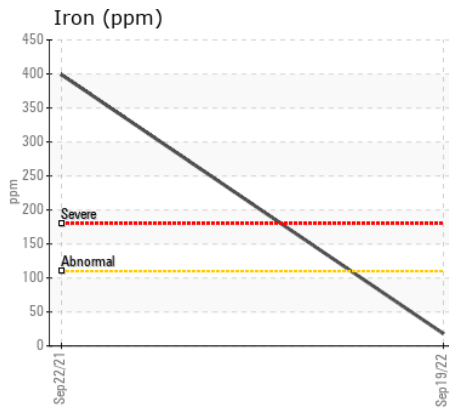
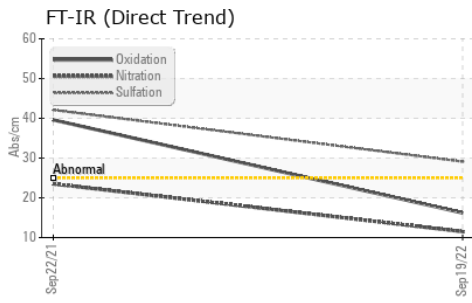
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	15	13	---
Potassium	ppm	ASTM D5185m	>20	0	26	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	1.5	---
Nitration	Abs/cm	*ASTM D7624	>20	11.5	23.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.1	42.1	---
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		13	20	---
Boron	ppm	ASTM D5185m		4	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		115	166	---
Manganese	ppm	ASTM D5185m		2	9	---
Magnesium	ppm	ASTM D5185m		37	151	---
Calcium	ppm	ASTM D5185m		4246	5379	---
Phosphorus	ppm	ASTM D5185m		873	1268	---
Zinc	ppm	ASTM D5185m		1098	1376	---
Sulfur	ppm	ASTM D5185m		4372	4105	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	39.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.80	10.8	---
Visc @ 100°C	cSt	ASTM D445	15.5	15.0	▲ 20.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05668934  
**Lab Number** : 05668934  
**Unique Number** : 10178504  
**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)

T:  
F: