



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**DEUTZ FAHR 68**  
 Component  
**Front Diesel Engine**  
 Fluid  
**TRC MOLY XL PRO-SPEC IV XP 15W40 (9 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05441595	TR03334626	---
Sample Date		Client Info		05 Jul 2021	18 May 2013	---
Machine Age	hrs	Client Info		6610	5385	---
Oil Age	hrs	Client Info		154	174	---
Filter Age	hrs	Client Info		154	174	---
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	>150	10	17	---
Chromium	ppm	ASTM D5185m	>20	<1	3	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	6	6	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>30	10	2	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

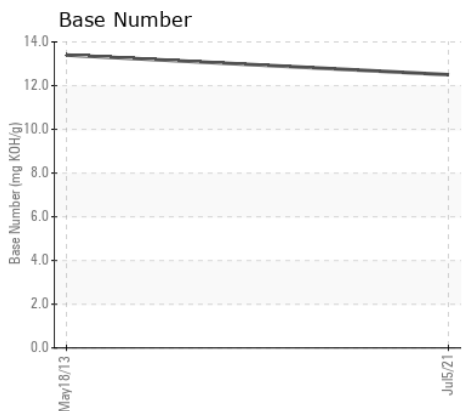
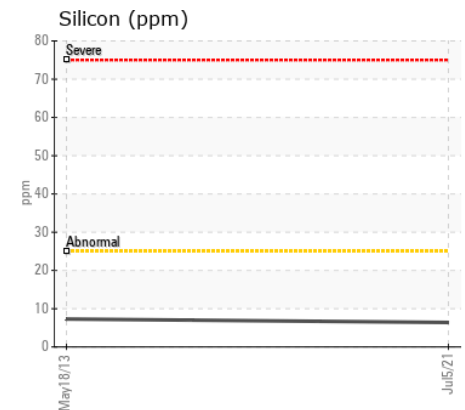
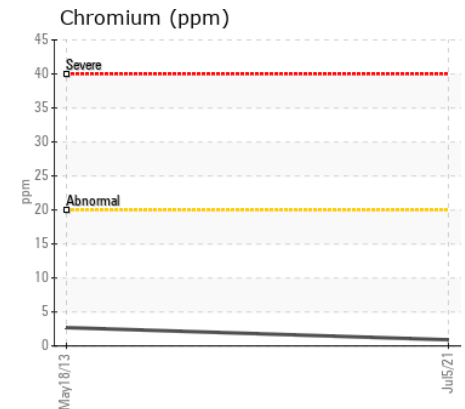
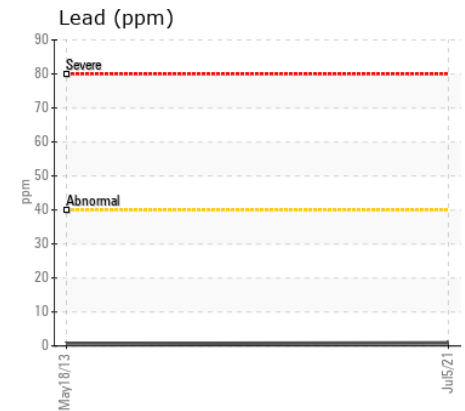
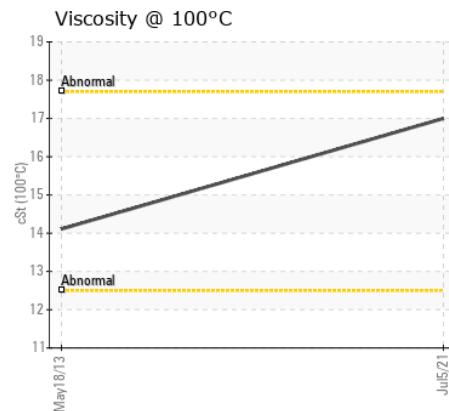
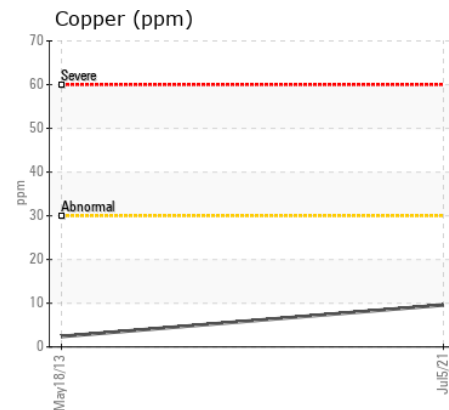
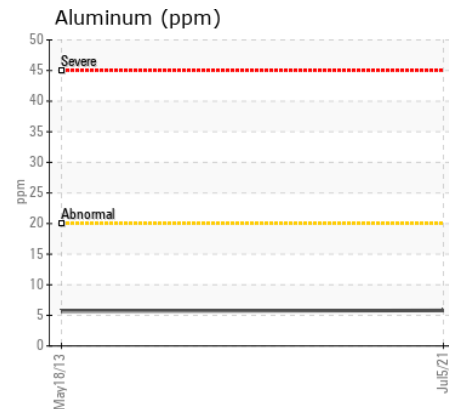
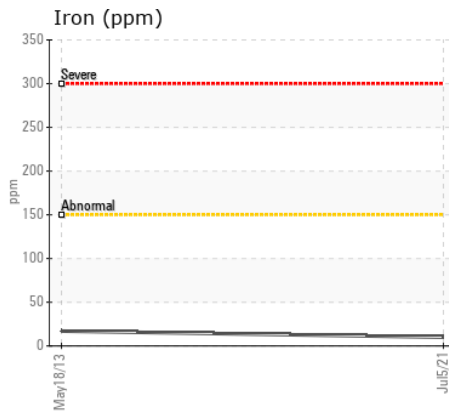
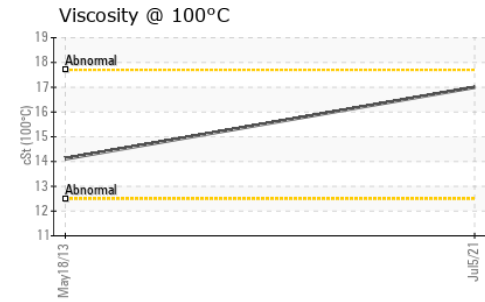
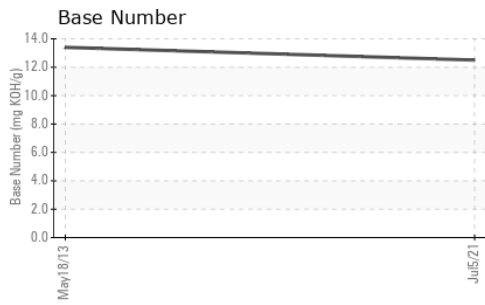
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	7	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.2	7.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.	---
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		8	11	---
Boron	ppm	ASTM D5185m		<1	187	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		146	188	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		105	378	---
Calcium	ppm	ASTM D5185m		4185	4540	---
Phosphorus	ppm	ASTM D5185m		875	877	---
Zinc	ppm	ASTM D5185m		1003	1034	---
Sulfur	ppm	ASTM D5185m		3299	3100	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	9.	---
Base Number (BN)	mg KOH/g	ASTM D2896		12.5	13.4	---
Visc @ 100°C	cSt	ASTM D445		17.0	14.11	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05441595 **Received** : 11 Jan 2022  
**Lab Number** : 05441595 **Tested** : 12 Jan 2022  
**Unique Number** : 9805788 **Diagnosed** : 12 Jan 2022 - Wes Davis  
**Test Package** : MOB 2

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)

**PHIL HARDER**  
 57803 350TH STREET  
 MOUNTAIN LAKE, MN  
 US 56159  
 Contact: PHILIP HARDER  
 philbren@frontiernet.net  
 T: 5(07) 227-6074  
 F: