



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 8345R 8345R

Component
Diesel Engine

Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05309065	TR05113565	---
Sample Date		Client Info		15 Jul 2021	22 Oct 2020	---
Machine Age	hrs	Client Info		760	460	---
Oil Age	hrs	Client Info		760	460	---
Filter Age	hrs	Client Info		760	460	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	43	19	---
Chromium	ppm	ASTM D5185m	>11	1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>31	0	0	---
Lead	ppm	ASTM D5185m	>26	1	<1	---
Copper	ppm	ASTM D5185m	>26	11	3	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

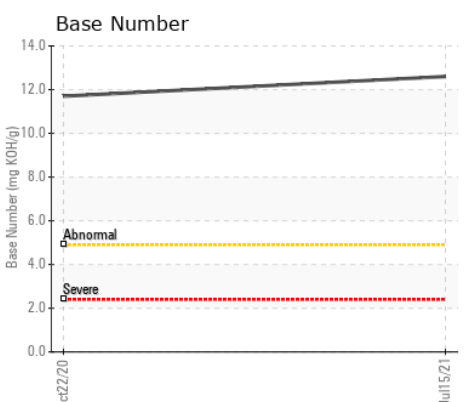
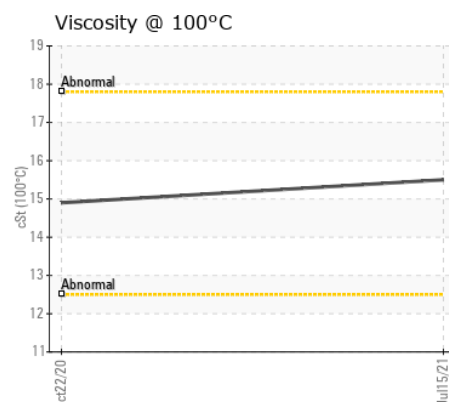
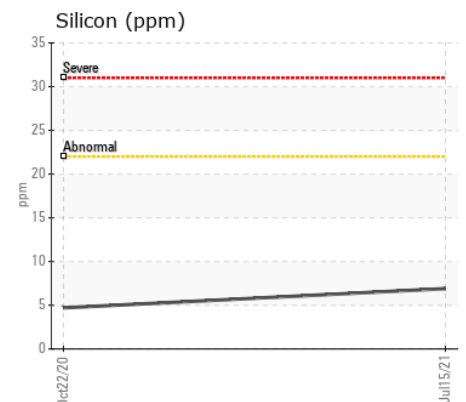
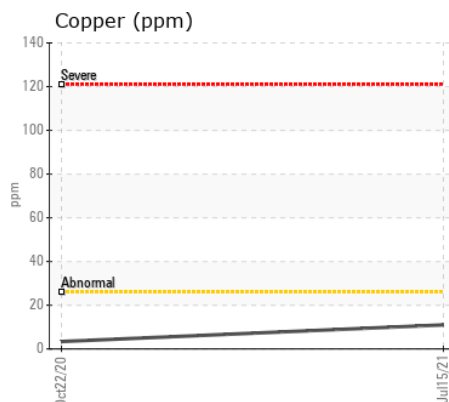
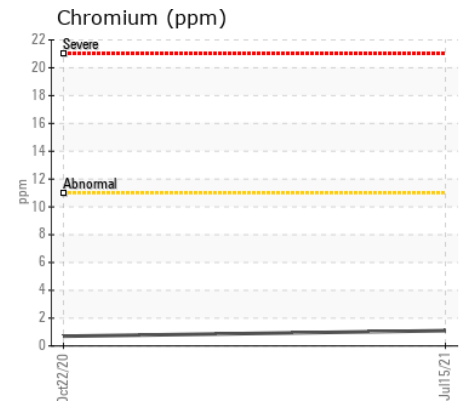
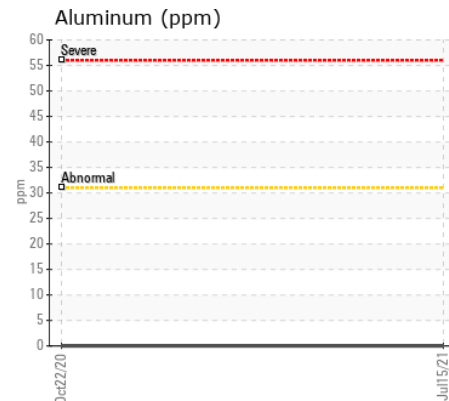
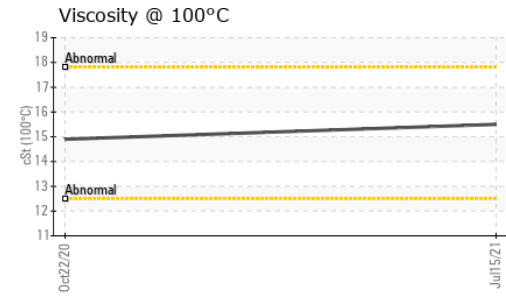
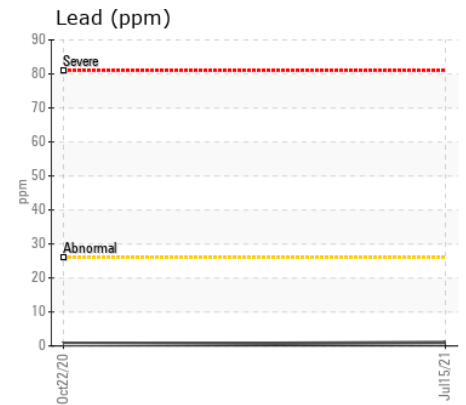
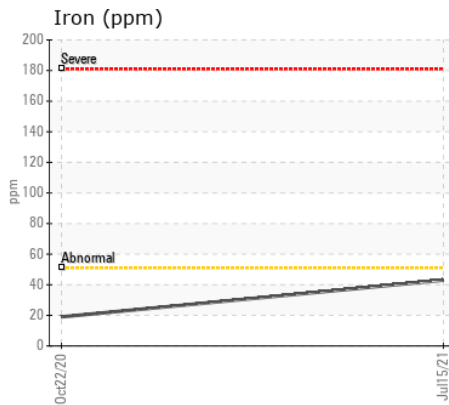
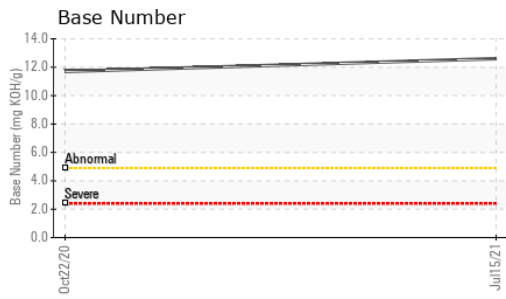
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	7	5	---
Potassium	ppm	ASTM D5185m	>20	1	1	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	18.7	---
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	>0.21	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	>31	4	<1	---
Boron	ppm	ASTM D5185m		4	20	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		66	23	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		28	71	---
Calcium	ppm	ASTM D5185m		4540	4277	---
Phosphorus	ppm	ASTM D5185m		902	937	---
Zinc	ppm	ASTM D5185m		1024	1081	---
Sulfur	ppm	ASTM D5185m		3463	3522	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	10.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		12.6	11.7	---
Visc @ 100°C	cSt	ASTM D445		15.5	14.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR05309065 **Received** : 22 Jul 2021
Lab Number : 05309065 **Diagnosed** : 23 Jul 2021
Unique Number : 9593034 **Diagnostician** : Wes Davis
Test Package : MOB 2

BALEY TROTMAN FARMS
 PO BOX 417
 MALIN, OR
 US 97632
 Contact: DOUG CARPENTER

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: