



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F350 11
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC V SYN BLEND 10W30 (13 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05623934	TR05334899	---
Sample Date		Client Info		01 Aug 2022	27 Jul 2021	---
Machine Age	mls	Client Info		49981	7500	---
Oil Age	mls	Client Info		7000	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	22	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	1	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	2	5	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

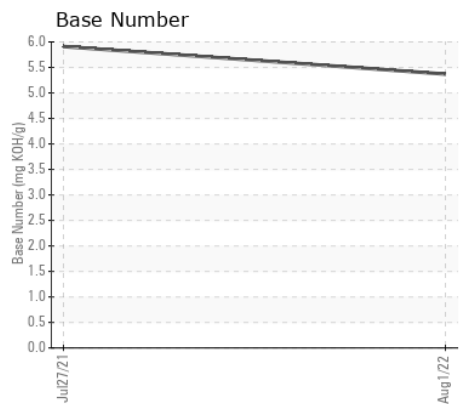
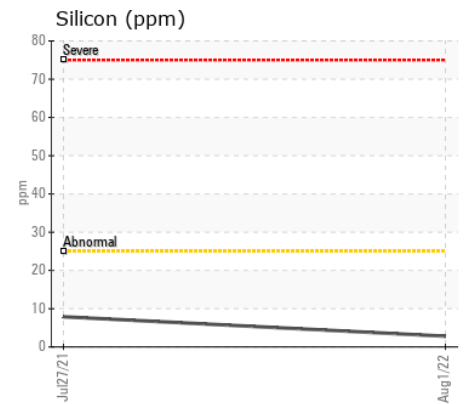
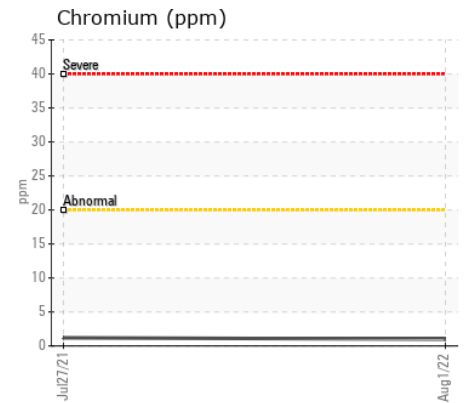
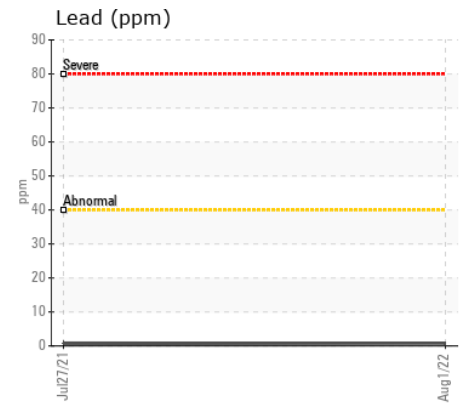
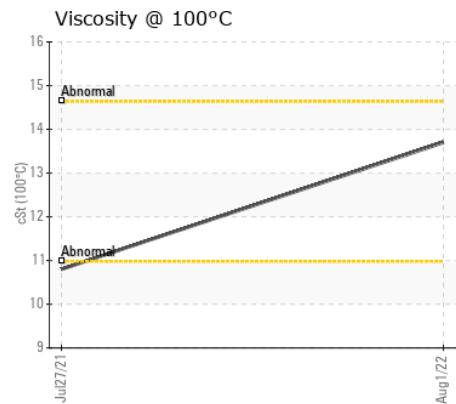
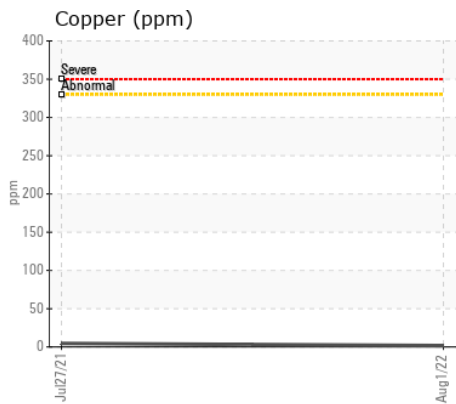
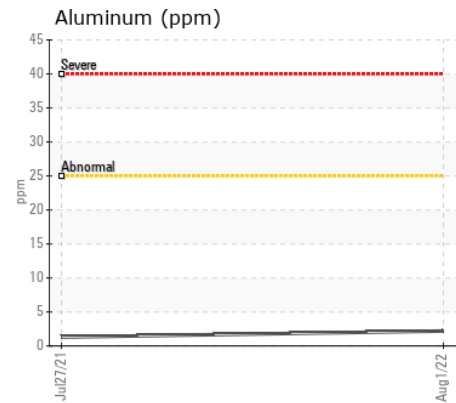
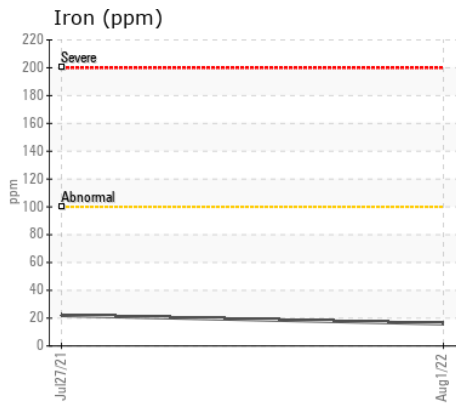
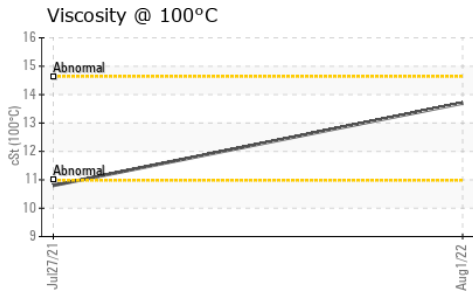
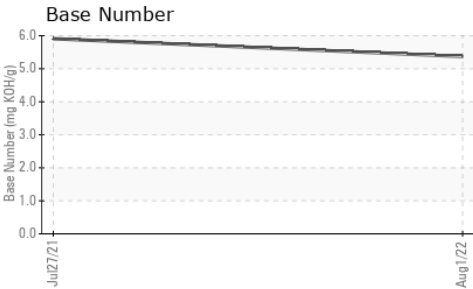
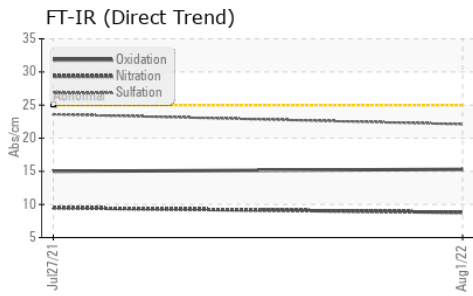
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	8	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Fuel		WC Method	>5	<1.0	▲ 2.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	23.6	---
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		2	4	---
Boron	ppm	ASTM D5185m		0	8	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		2	2	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		12	22	---
Calcium	ppm	ASTM D5185m		2317	2411	---
Phosphorus	ppm	ASTM D5185m		856	913	---
Zinc	ppm	ASTM D5185m		992	1008	---
Sulfur	ppm	ASTM D5185m		3409	3106	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.37	5.91	---
Visc @ 100°C	cSt	ASTM D445		13.7	● 10.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR05623934
Lab Number : 05623934
Unique Number : 10103441
Test Package : MOB 2
Received : 22 Aug 2022
Tested : 25 Aug 2022
Diagnosed : 25 Aug 2022 - Angela Borella

AG BUILDERS OF SOUTHERN MINNESOTA
 1815 1ST AVE N
 WINDOM, MN
 US 56101-0026
 Contact: DARRYL BARGEN

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: