



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FORD F-350 37 (S/N HEB25766)**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC PRO-SPEC V SYN BLEND 15W40 (15 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06211969	TR06145370	---
Sample Date		Client Info		04 Jun 2024	09 Apr 2024	---
Machine Age	mls	Client Info		153956	146500	---
Oil Age	mls	Client Info		7456	9500	---
Filter Age	mls	Client Info		7456	9500	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	31	61	---
Chromium	ppm	ASTM D5185m	>20	1	2	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	5	8	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	3	4	---
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**

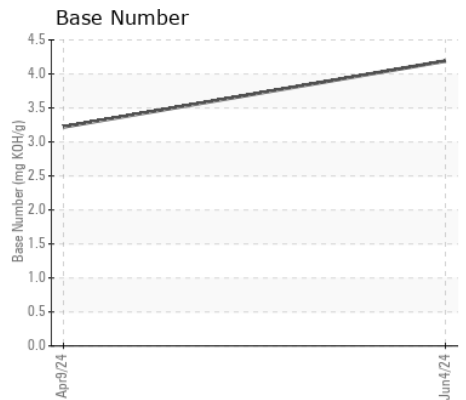
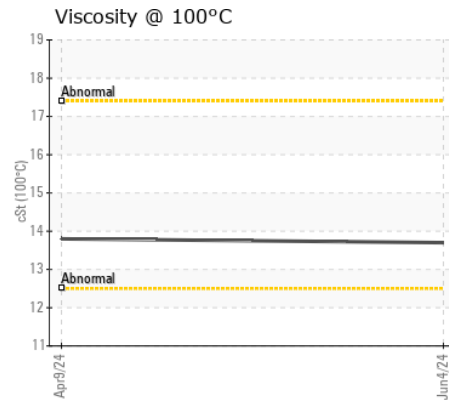
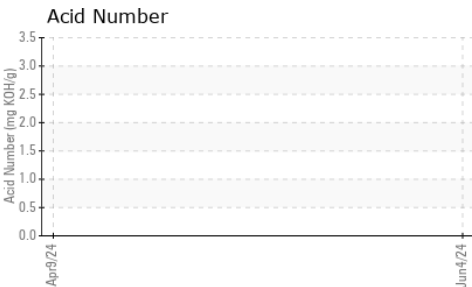
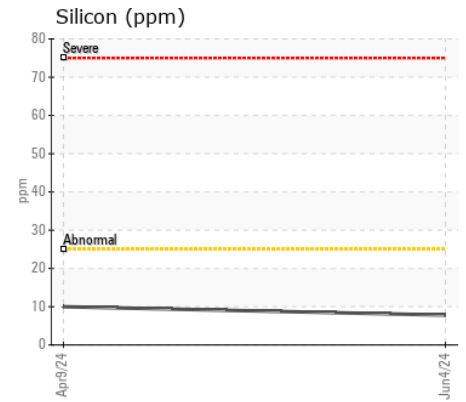
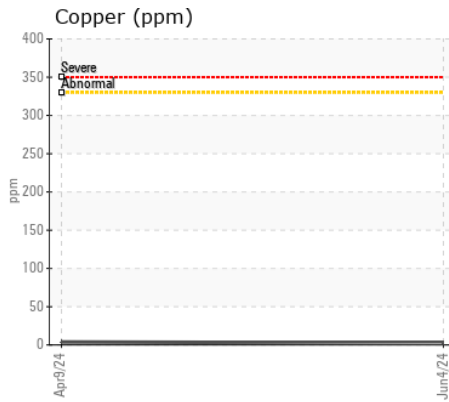
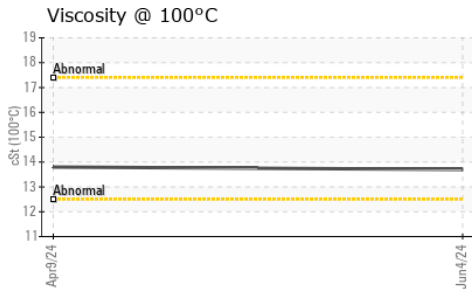
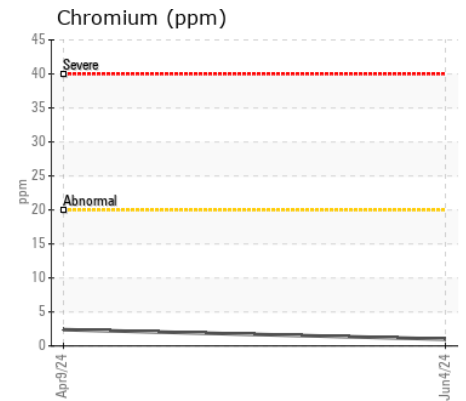
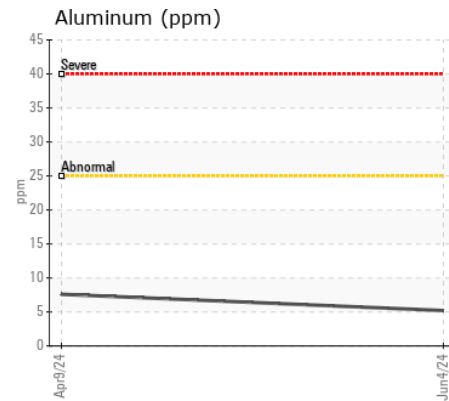
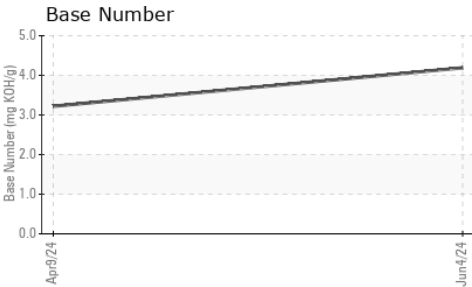
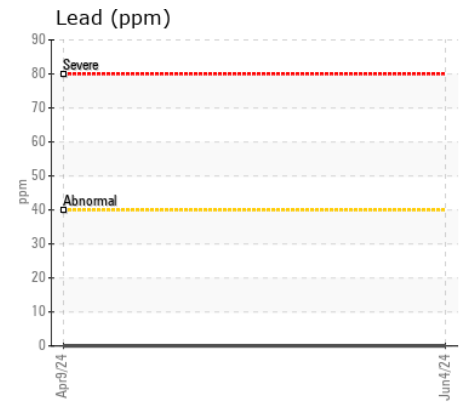
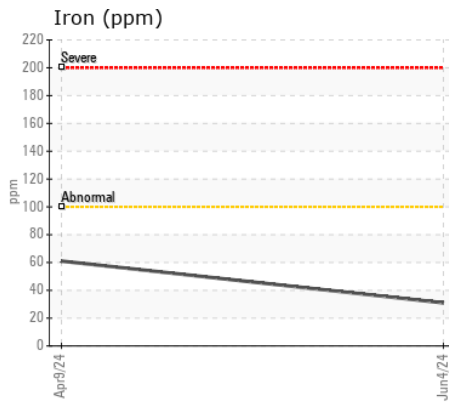
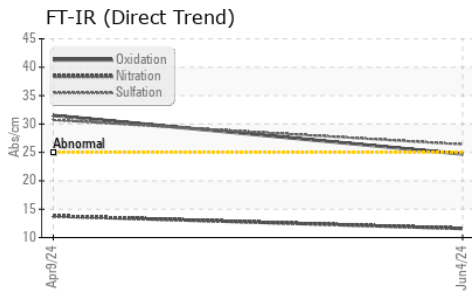
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	10	---
Potassium	ppm	ASTM D5185m	>20	3	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	0.7	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	11.6	13.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	30.7	---
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	>0.2	NEG	NEG	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	1	---
Boron	ppm	ASTM D5185m		2	3	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	2	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		26	14	---
Calcium	ppm	ASTM D5185m		2263	2163	---
Phosphorus	ppm	ASTM D5185m		847	865	---
Zinc	ppm	ASTM D5185m		988	949	---
Sulfur	ppm	ASTM D5185m		3884	3532	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7	31.5	---
Acid Number (AN)	mg KOH/g	ASTM D8045		---	▲ 3.14	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.19	▲ 3.22	---
Visc @ 100°C	cSt	ASTM D445		13.7	13.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06211969 **Received** : 17 Jun 2024  
**Lab Number** : 06211969 **Tested** : 19 Jun 2024  
**Unique Number** : 11084833 **Diagnosed** : 19 Jun 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

**KASKI LOGGING**  
 22411 HE CEDAR CREEK RD  
 AMBOY, WA  
 US 98601  
 Contact: NATHAN BYRD

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: