



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD BD0596
 Component
Diesel Engine
 Fluid
TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (12 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06222505	TR05573984	---
Sample Date		Client Info		26 Jun 2024	21 Jun 2022	---
Machine Age	yrs	Client Info		0	3650	---
Oil Age	yrs	Client Info		1	100	---
Filter Age	yrs	Client Info		1	100	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	11	---
Chromium	ppm	ASTM D5185m	>20	15	5	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	5	2	---
Lead	ppm	ASTM D5185m	>40	1	14	---
Copper	ppm	ASTM D5185m	>330	3	6	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

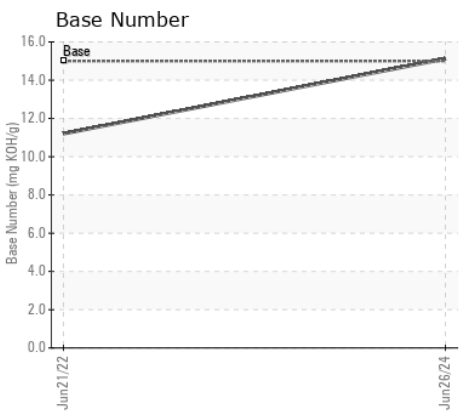
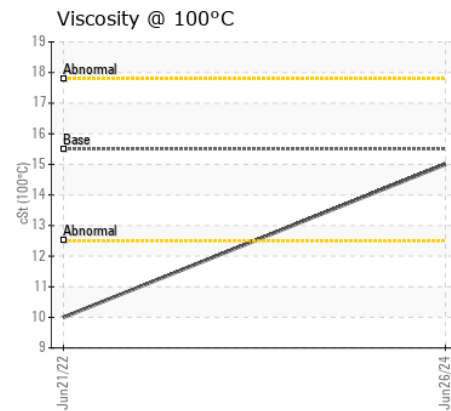
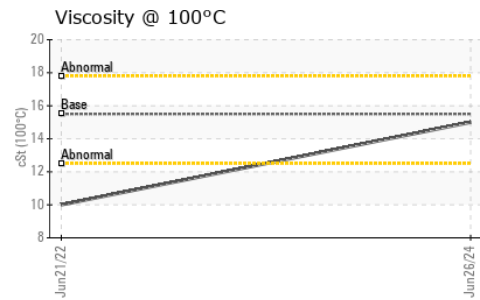
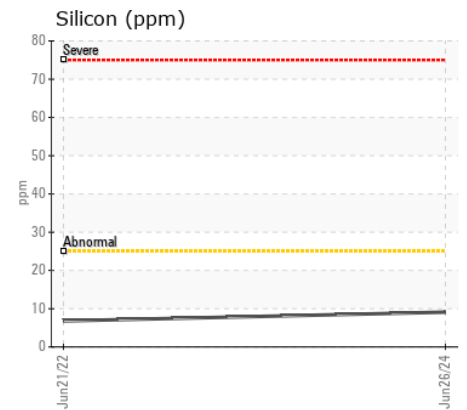
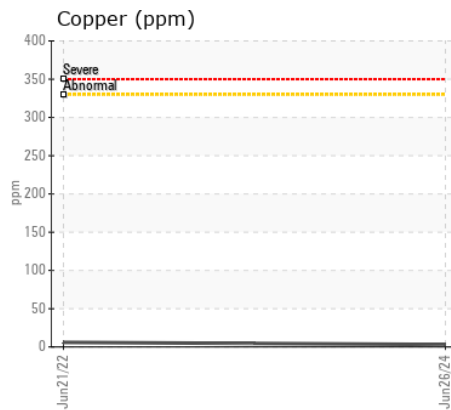
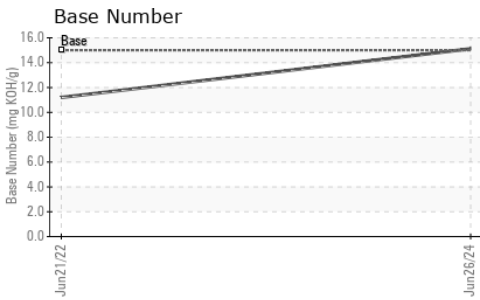
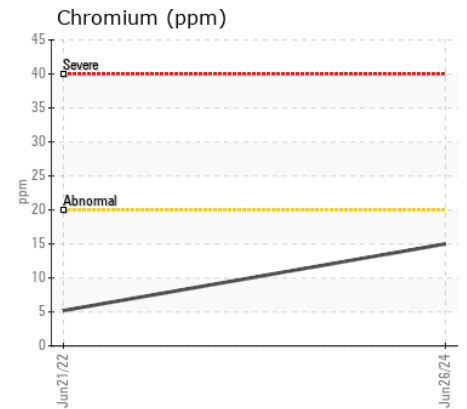
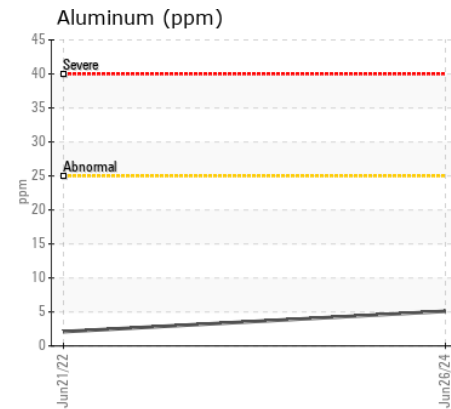
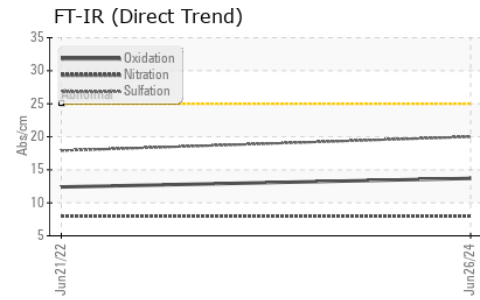
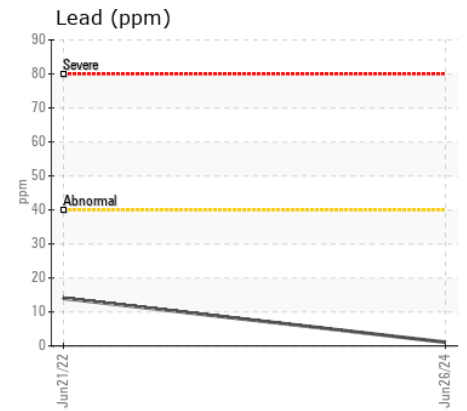
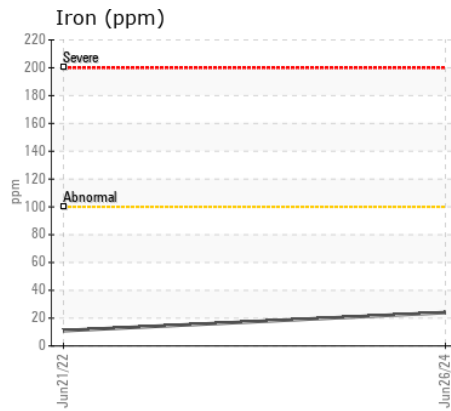
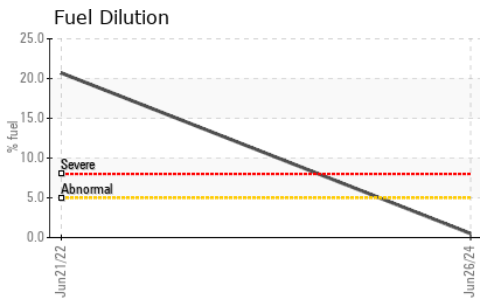
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	7	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Fuel	%	ASTM D3524	>5	0.5	▲ 20.7	---
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	8.0	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	17.9	---
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	<1	---
Boron	ppm	ASTM D5185m		213	185	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		190	156	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		458	363	---
Calcium	ppm	ASTM D5185m	4500	3850	3238	---
Phosphorus	ppm	ASTM D5185m		905	673	---
Zinc	ppm	ASTM D5185m	1400	1058	800	---
Sulfur	ppm	ASTM D5185m		4226	2965	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	15.12	11.2	---
Visc @ 100°C	cSt	ASTM D445	15.5	15.0	▲ 10.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06222505 **Received** : 27 Jun 2024
Lab Number : 06222505 **Tested** : 01 Jul 2024
Unique Number : 11100702 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel)

BUDDY CLONTS
 RT 2 BOX 50A
 CROCKETT, TX
 US 75835
 Contact: BUDDY CLONTS

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: (936)544-5606

F: