



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD FORD F-250
 Component
Gasoline Engine
 Fluid
TRC PRO-SPEC III SAE 10W30 (--- Shots)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06174077	TR05517306	---
Sample Date		Client Info		21 Sep 2023	18 Mar 2022	---
Machine Age	mls	Client Info		85630	63544	---
Oil Age	mls	Client Info		8264	6833	---
Filter Age	mls	Client Info		8264	6833	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	25	11	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>5	1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>40	6	3	---
Lead	ppm	ASTM D5185m	>50	<1	<1	---
Copper	ppm	ASTM D5185m	>155	4	<1	---
Tin	ppm	ASTM D5185m	>10	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

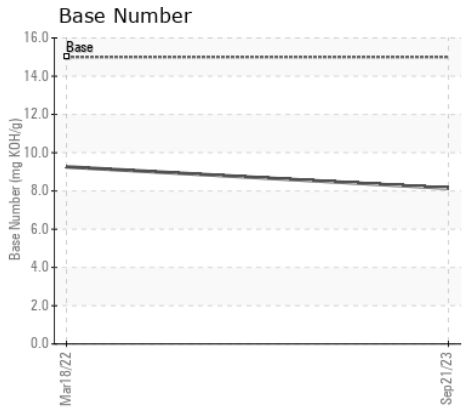
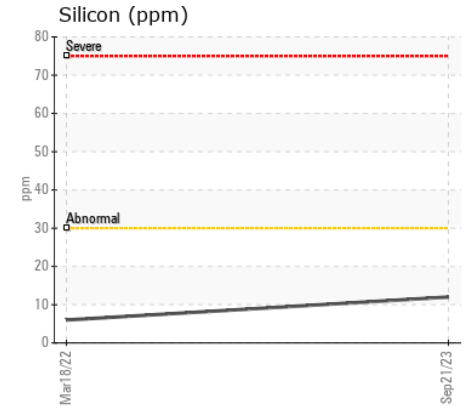
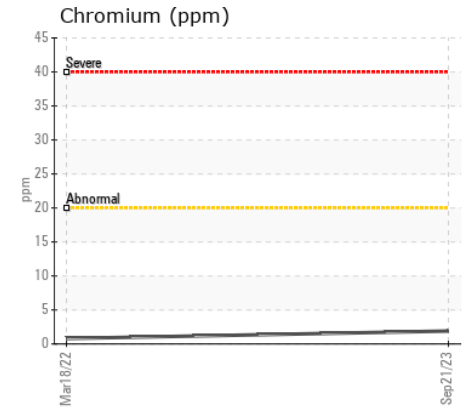
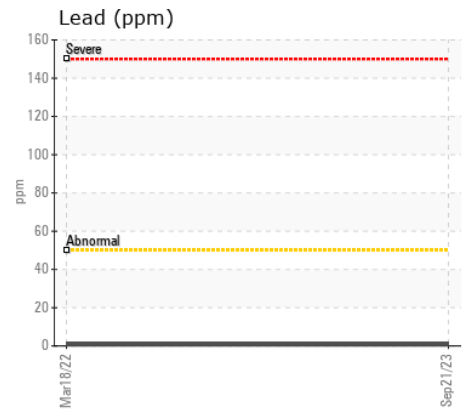
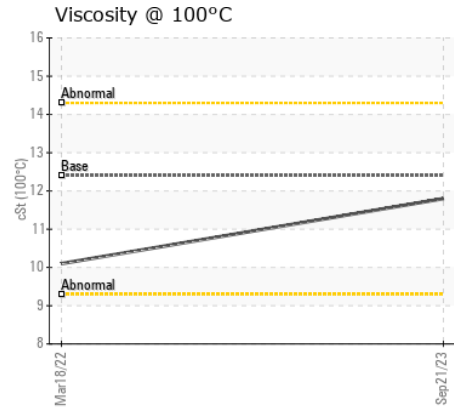
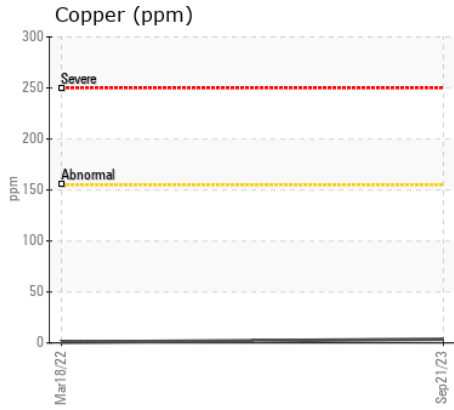
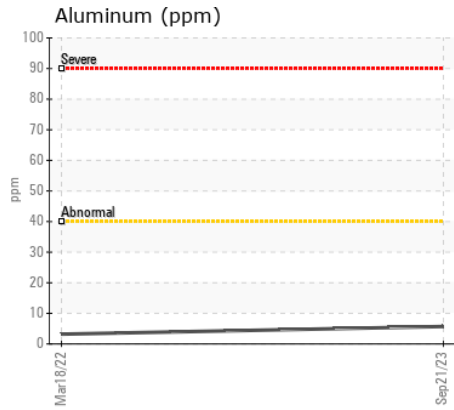
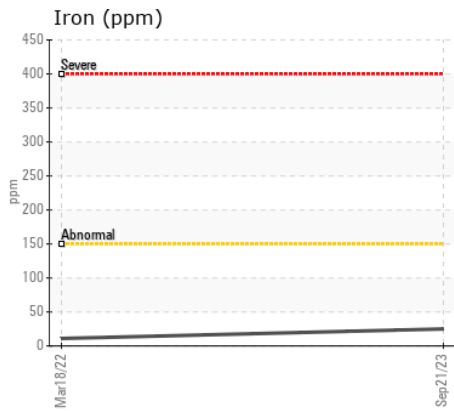
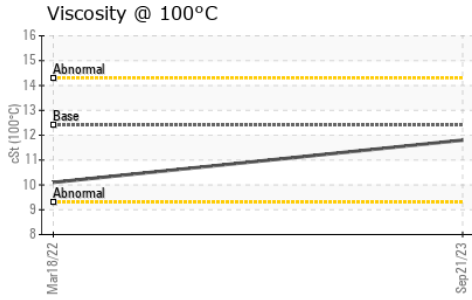
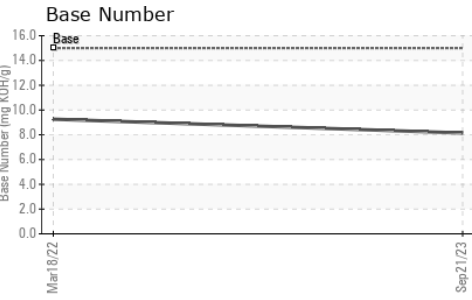
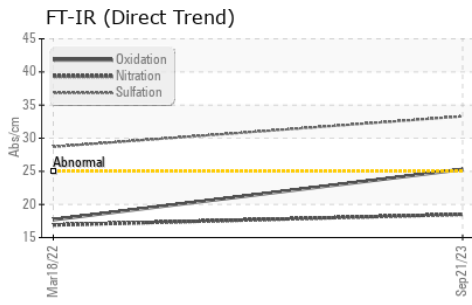
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	12	6	---
Potassium	ppm	ASTM D5185m	>20	5	0	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	18.5	16.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.3	28.7	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m	>400	6	9	---
Boron	ppm	ASTM D5185m		<1	10	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		3	19	---
Manganese	ppm	ASTM D5185m		2	<1	---
Magnesium	ppm	ASTM D5185m		23	93	---
Calcium	ppm	ASTM D5185m	4500	4635	4130	---
Phosphorus	ppm	ASTM D5185m		1120	966	---
Zinc	ppm	ASTM D5185m	1400	1293	1150	---
Sulfur	ppm	ASTM D5185m		5044	3640	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.3	17.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	8.14	9.26	---
Visc @ 100°C	cSt	ASTM D445	12.4	11.8	10.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06174077
Lab Number : 06174077
Unique Number : 11020130
Test Package : MOB 2
Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 12 May 2024 - Don Baldrige

COFFMAN INDUSTRIES
 10800 CEMETERY RD
 CANYON, TX
 US 79015
 Contact: MIKE LEWIS

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: (806)655-2577