



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 22 - GRAY
 Component
Front Diesel Engine
 Fluid
TRC PRO-SPEC V SYN BLEND 10W30 (--- LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02645185	---	---
Sample Date		Client Info		24 Jun 2024	---	---
Machine Age	kms	Client Info		138000	---	---
Oil Age	kms	Client Info		17000	---	---
Filter Age	kms	Client Info		17000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	25	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	3	---	---
Lead	ppm	ASTM D5185(m)	>40	0	---	---
Copper	ppm	ASTM D5185(m)	>330	1	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

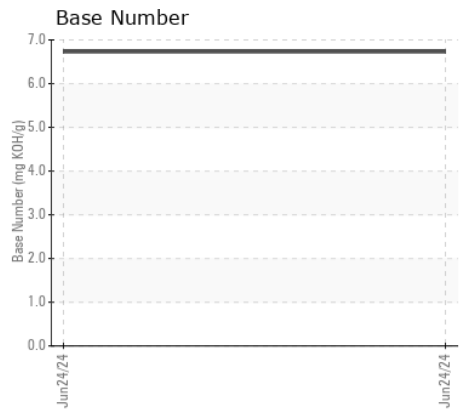
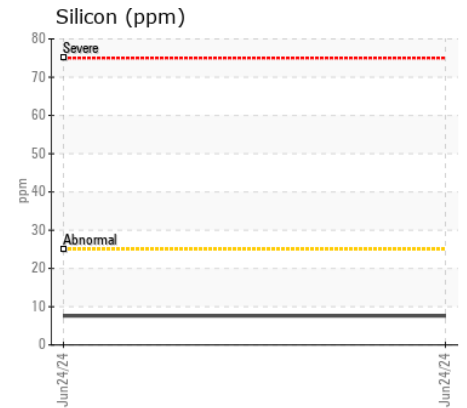
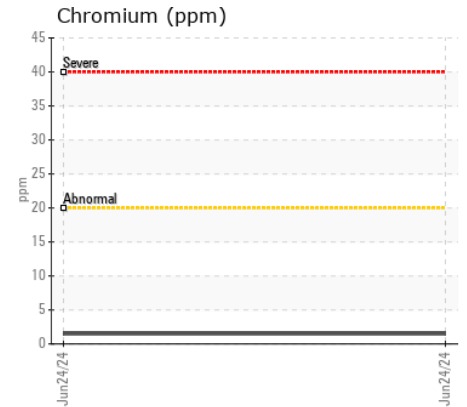
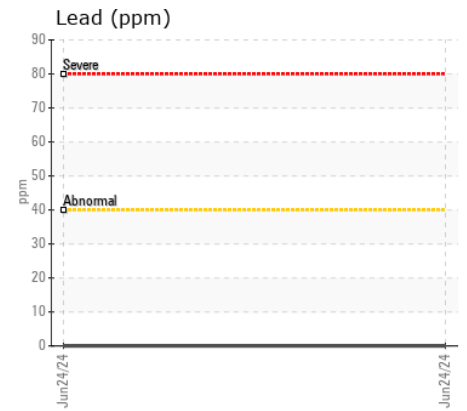
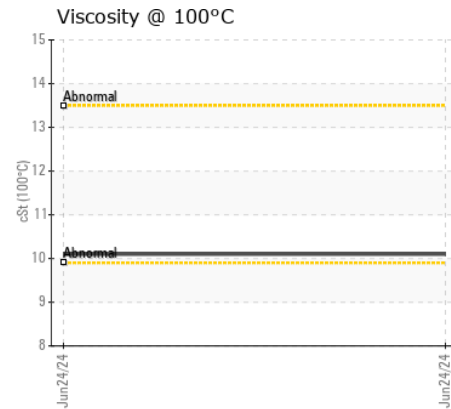
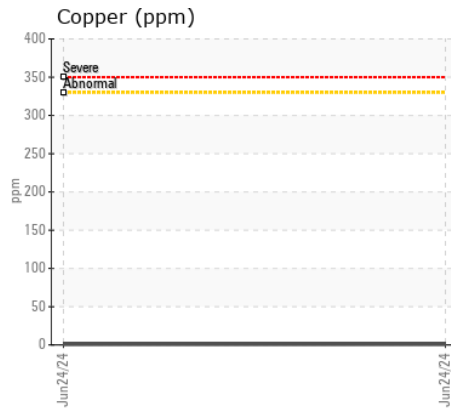
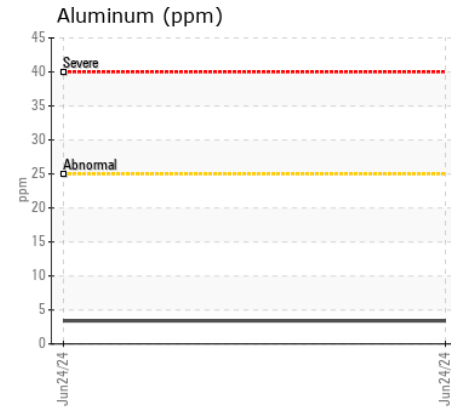
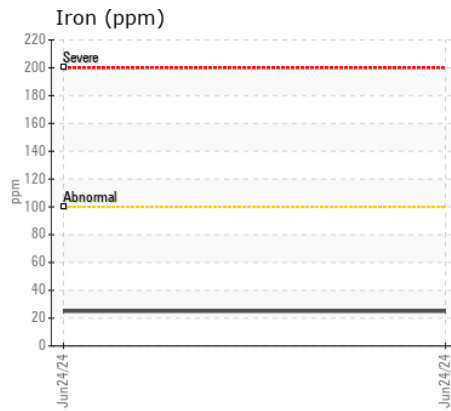
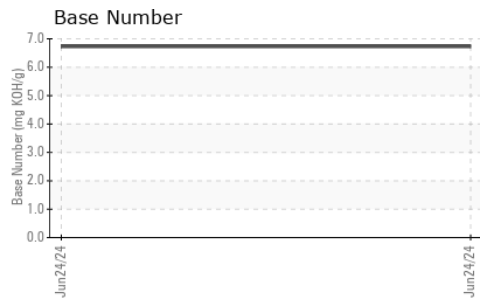
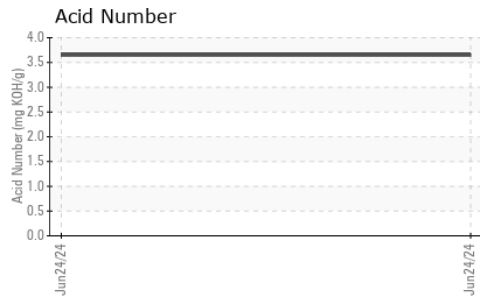
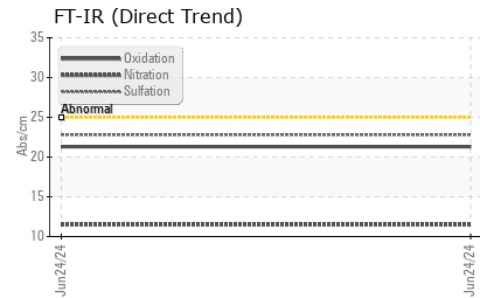
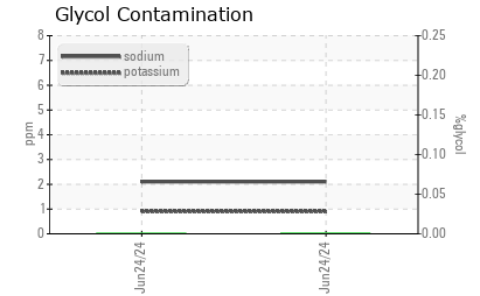
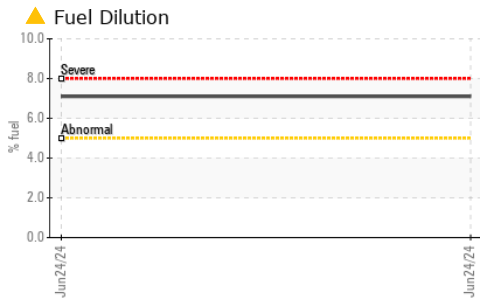
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>5	▲ 7.1	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)		23	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		84	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		15	---	---
Calcium	ppm	ASTM D5185(m)		2038	---	---
Phosphorus	ppm	ASTM D5185(m)		863	---	---
Zinc	ppm	ASTM D5185(m)		1015	---	---
Sulfur	ppm	ASTM D5185(m)		2990	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.3	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		3.65	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		6.73	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		64.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		10.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		143	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02645185 **Received** : 03 Jul 2024
Lab Number : 02645185 **Tested** : 08 Jul 2024
Unique Number : 5802724 **Diagnosed** : 08 Jul 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: FUELDILUTION, GLYCOL, KV40, PercentFuel, TAN Auto, TAN Cold, WUC)

LUCAS ENTZ
 BOX 60
 GULL LAKE, SK
 CA S0N 1A0
 Contact: LUCAS ENTZ (AT 103)

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: (306)297-3556
 F: (306)297-4193