



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER TURQUISE

Component
Diesel Engine

Fluid
TRC PRO-SPEC V SYN BLEND 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02641592	TR02247969	---
Sample Date		Client Info		03 Jun 2024	11 Oct 2018	---
Machine Age	kms	Client Info		183319	39888	---
Oil Age	kms	Client Info		4600	24364	---
Filter Age	kms	Client Info		4600	24364	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	6	24	---
Chromium	ppm	ASTM D5185(m)	>20	<1	1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>30	6	13	---
Lead	ppm	ASTM D5185(m)	>30	0	9	---
Copper	ppm	ASTM D5185(m)	>30	25	353	---
Tin	ppm	ASTM D5185(m)	>15	2	3	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

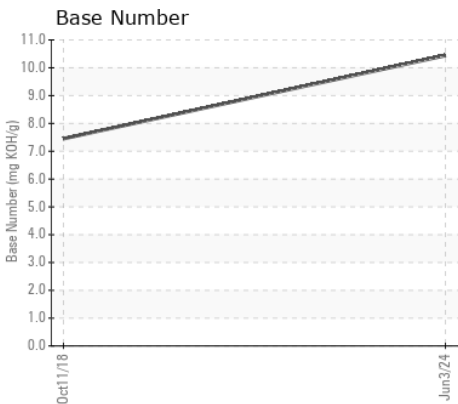
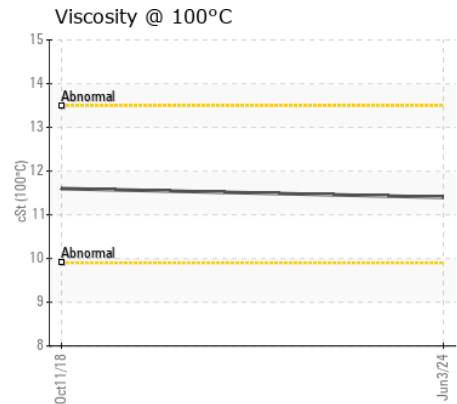
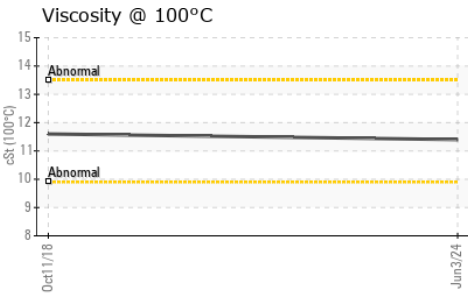
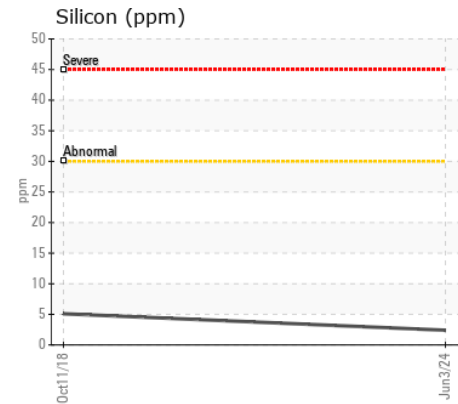
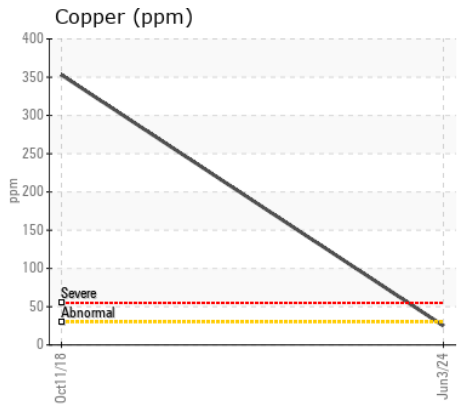
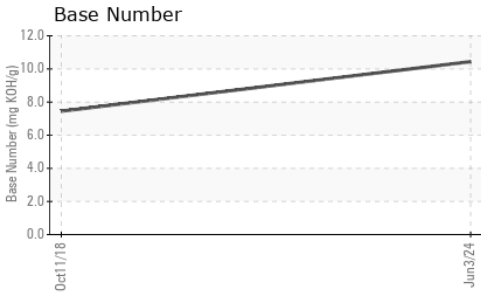
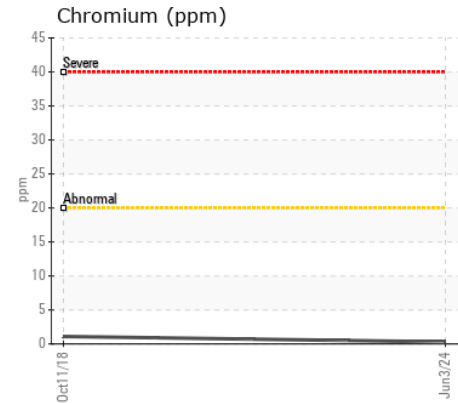
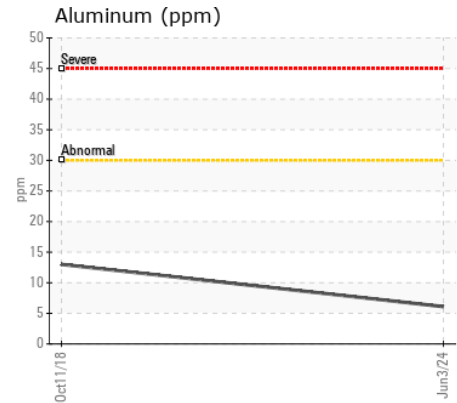
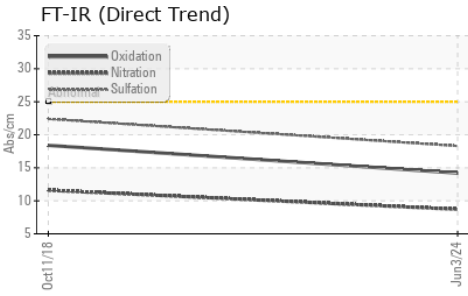
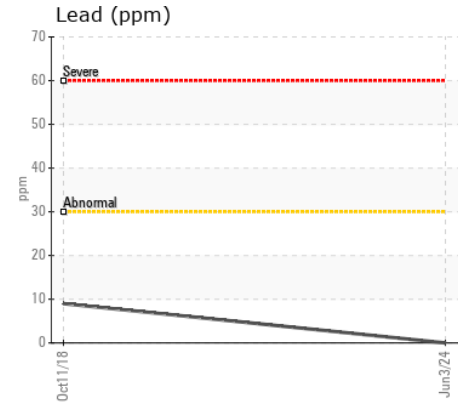
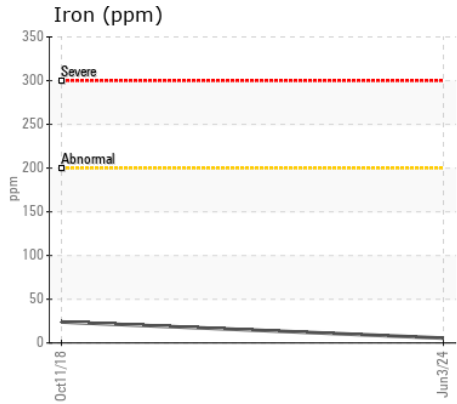
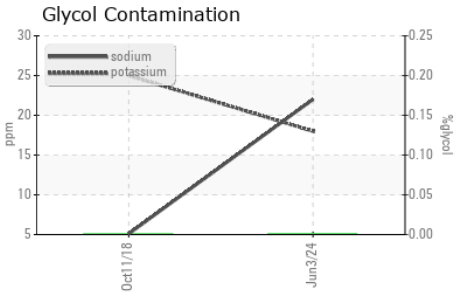
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	5	---
Potassium	ppm	ASTM D5185(m)	>20	18	25	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	0.0	---
Soot %	%	ASTM D7844*	>3	0	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	8.7	11.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	22.4	---
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 D5185(m)		22	5	---
Boron	ppm	ASTM D5185(m)		57	5	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		91	41	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		15	879	---
Calcium	ppm	ASTM D5185(m)		2215	1709	---
Phosphorus	ppm	ASTM D5185(m)		1007	1063	---
Zinc	ppm	ASTM D5185(m)		1134	1336	---
Sulfur	ppm	ASTM D5185(m)		3231	2782	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	18.4	---
Base Number (BN)	mg KOH/g	ASTM D2896*		10.44	7.45	---
Visc @ 100°C	cSt	ASTM D7279(m)		11.4	11.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02641592 **Received** : 13 Jun 2024
Lab Number : **02641592** **Tested** : 14 Jun 2024
Unique Number : 5799131 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

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