



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

G-1

Component

Diesel Engine

Fluid

TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02632201	TR02513423	---
Sample Date		Client Info		08 Apr 2024	27 Sep 2022	---
Machine Age	hrs	Client Info		4866	3164	---
Oil Age	hrs	Client Info		266	370	---
Filter Age	hrs	Client Info		266	200	---
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)	>100	82	46	---
Chromium	ppm	ASTM D5185(m)	>20	1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	5	8	---
Lead	ppm	ASTM D5185(m)	>40	2	3	---
Copper	ppm	ASTM D5185(m)	>330	5	5	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---

CONTAMINATION

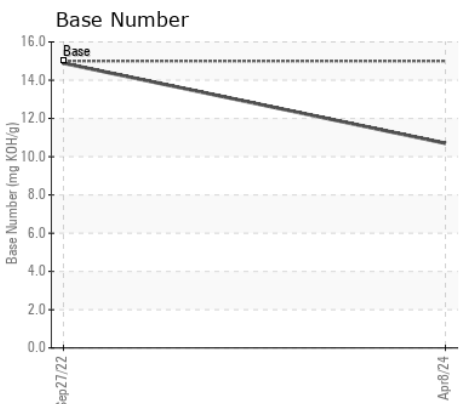
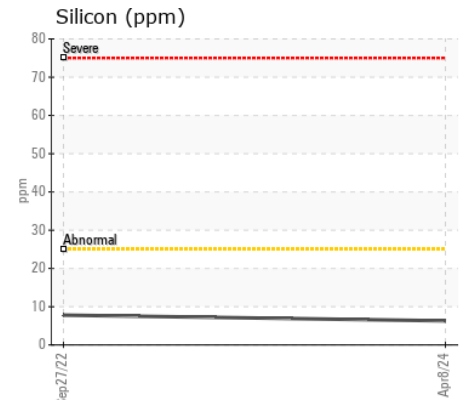
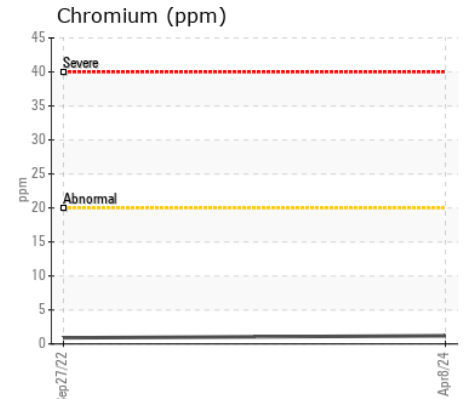
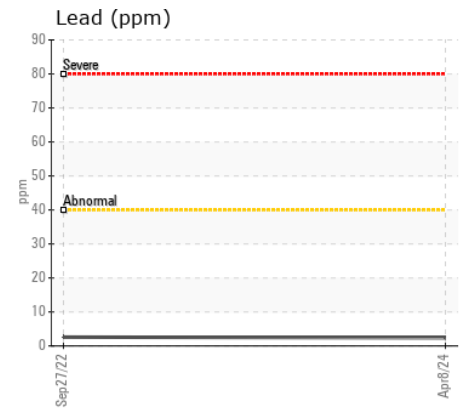
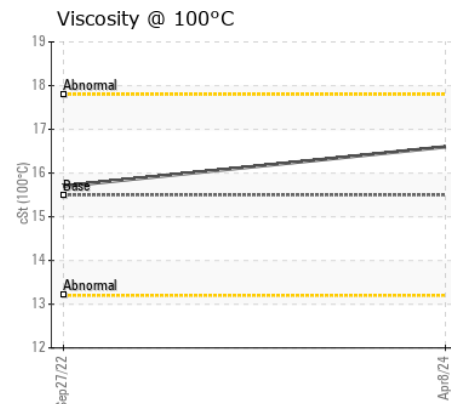
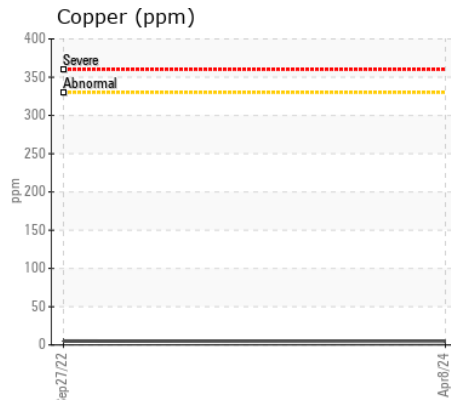
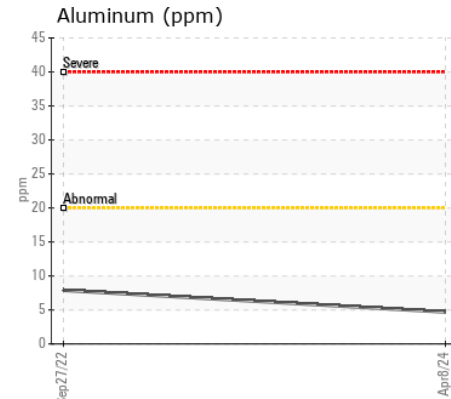
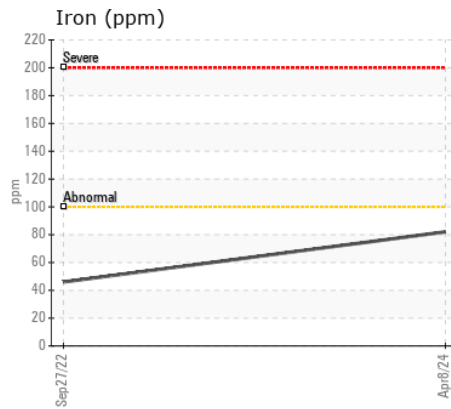
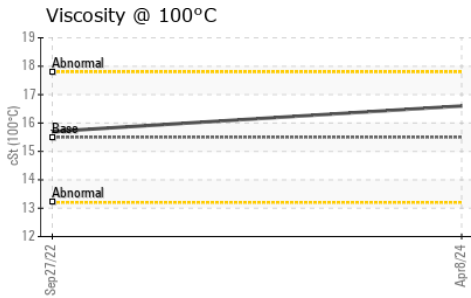
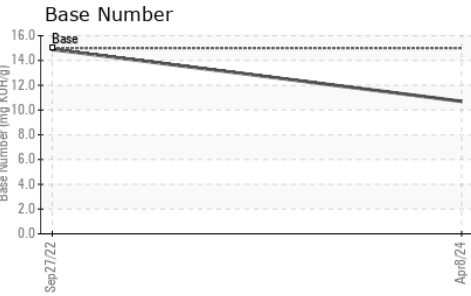
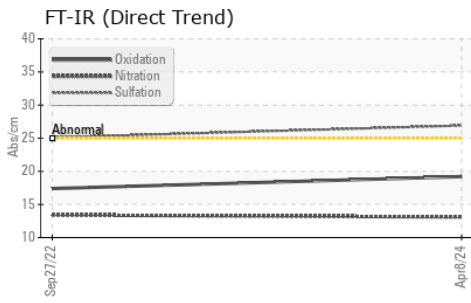
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	8	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	2.5	1.6	---
Nitration	Abs/cm	ASTM D7624*	>20	13.1	13.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.9	25.1	---
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)		6	3	---
Boron	ppm	ASTM D5185(m)		25	29	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		247	223	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		30	36	---
Calcium	ppm	ASTM D5185(m)	4500	3463	5198	---
Phosphorus	ppm	ASTM D5185(m)		1107	1150	---
Zinc	ppm	ASTM D5185(m)	1400	1332	1263	---
Sulfur	ppm	ASTM D5185(m)		3525	3715	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	17.4	---
Base Number (BN)	mg KOH/g	ASTM D2896*	15	10.70	14.89	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	16.6	15.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02632201
Lab Number : 02632201
Unique Number : 5773354
Test Package : MOB 2
Received : 30 Apr 2024
Tested : 30 Apr 2024
Diagnosed : 30 Apr 2024 - Wes Davis

POLAR ENTERPRISE
 BOX 36, GRP 8
 HADASHVILLE, MB
 CA R0E 0X0
 Contact: Trevor Panych

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)

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F: