



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JLG 160039293

Component
Diesel Engine

Fluid
TRC PRO-SPEC IV XP SYN BLEND 15W40 (16 LTR)

RECOMMENDATION

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		TR02629200	TR02488134	---
Sample Date		Client Info		11 Mar 2024	01 May 2022	---
Machine Age	hrs	Client Info		2410	17653	---
Oil Age	hrs	Client Info		148	1260	---
Filter Age	hrs	Client Info		148	1260	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	10	39	---
Chromium	ppm	ASTM D5185(m)	>11	0	2	---
Nickel	ppm	ASTM D5185(m)	>5	<1	1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>31	3	4	---
Lead	ppm	ASTM D5185(m)	>26	0	4	---
Copper	ppm	ASTM D5185(m)	>26	<1	2	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

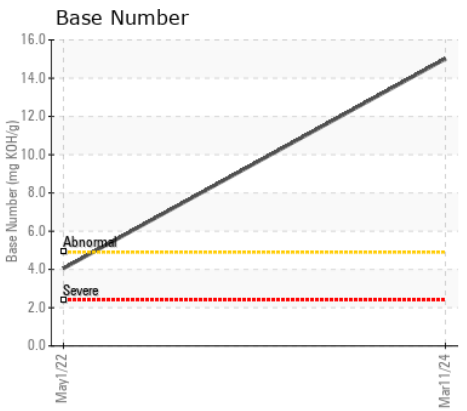
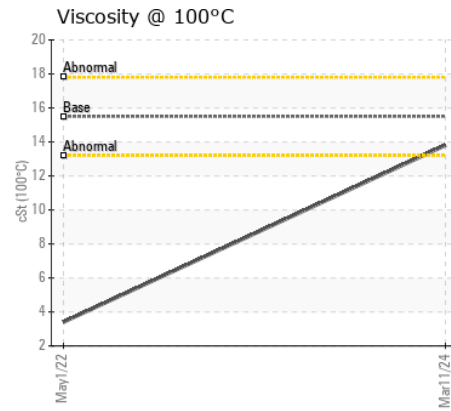
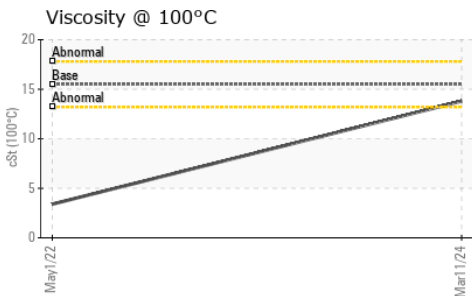
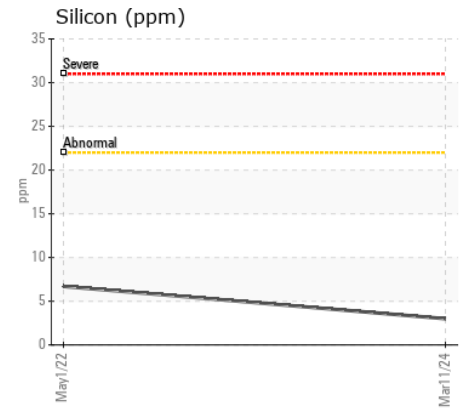
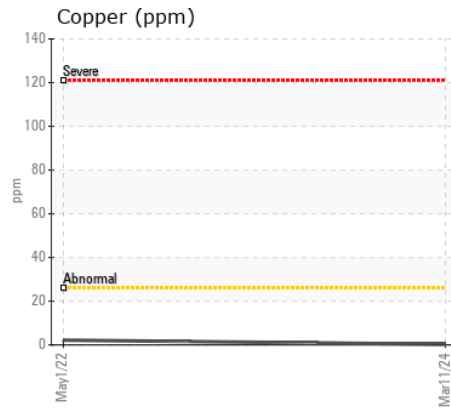
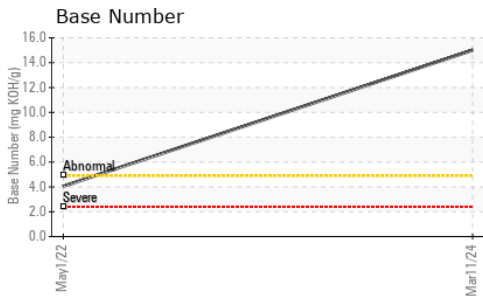
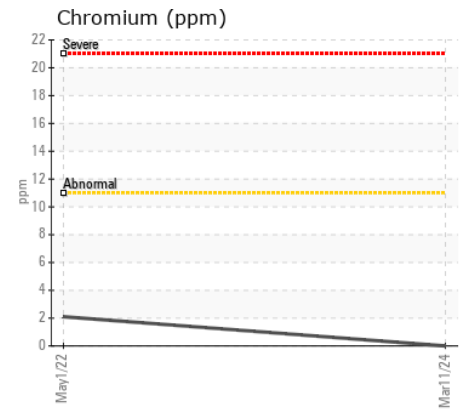
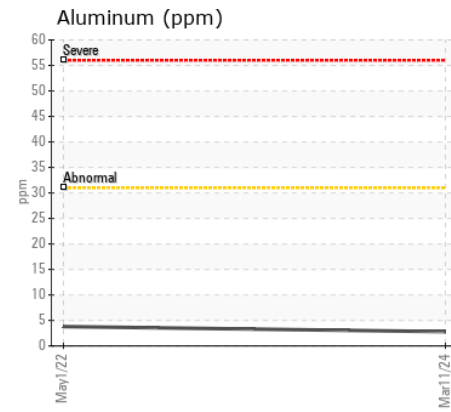
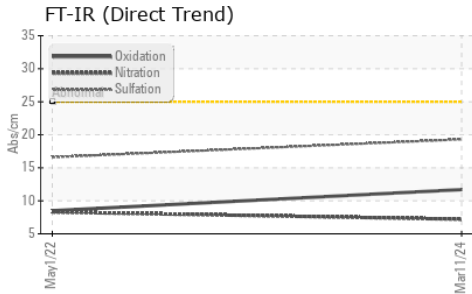
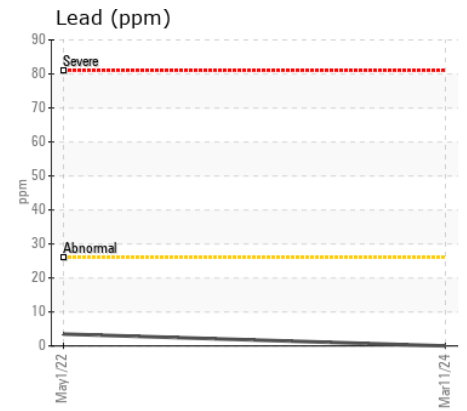
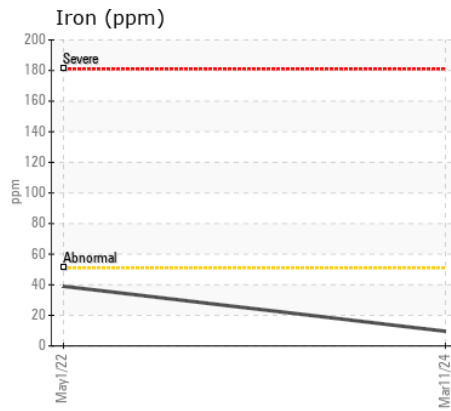
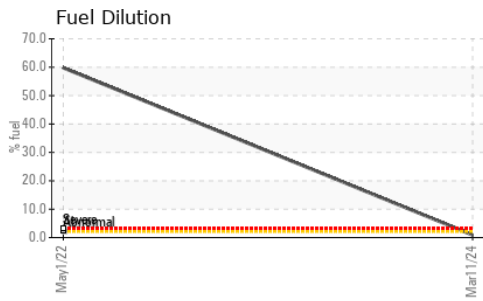
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	7	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Fuel	%	ASTM D7593*	>2.1	0.9	▲ 59.8	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	16.6	---
Emulsified Water	scalar	Visual*	>0.21	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)	>31	3	<1	---
Boron	ppm	ASTM D5185(m)		11	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		<1	4	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		18	7	---
Calcium	ppm	ASTM D5185(m)		5037	1535	---
Phosphorus	ppm	ASTM D5185(m)		995	336	---
Zinc	ppm	ASTM D5185(m)		1134	375	---
Sulfur	ppm	ASTM D5185(m)		3516	1187	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.7	8.5	---
Base Number (BN)	mg KOH/g	ASTM D2896*		15.01	4.05	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.8	▲ 3.4	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02629200
Lab Number : 02629200
Unique Number : 5762332
Test Package : MOB 2 (Additional Tests: PercentFuel)

Received : 16 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Wes Davis

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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)