



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**LINKBELT 430**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC MOLY XL PRO-SPEC IV 15W40 (12 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06158505	TR05767352	---
Sample Date		Client Info		03 Aug 2023	22 Nov 2022	---
Machine Age	hrs	Client Info		9372	8827	---
Oil Age	hrs	Client Info		500	500	---
Filter Age	hrs	Client Info		250	250	---
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 D5185m	>165	24	28	---
Chromium	ppm	ASTM D5185m	>5	2	1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	5	6	---
Lead	ppm	ASTM D5185m	>150	7	10	---
Copper	ppm	ASTM D5185m	>90	8	7	---
Tin	ppm	ASTM D5185m	>5	1	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

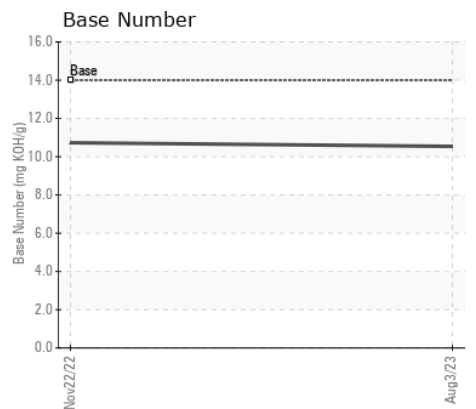
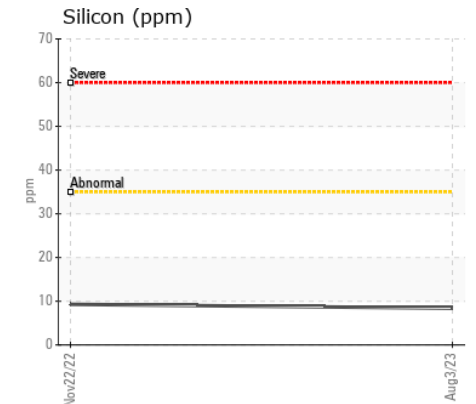
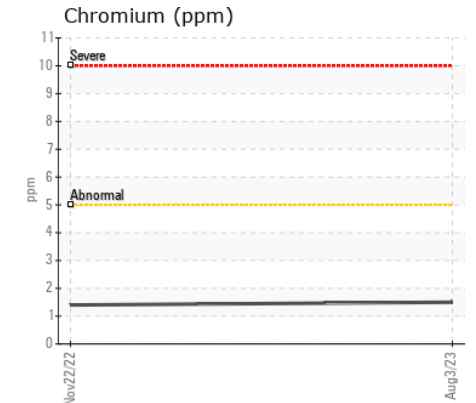
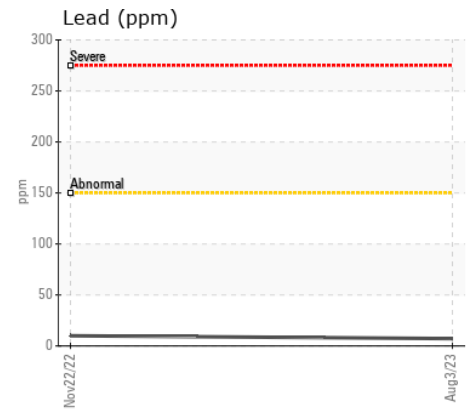
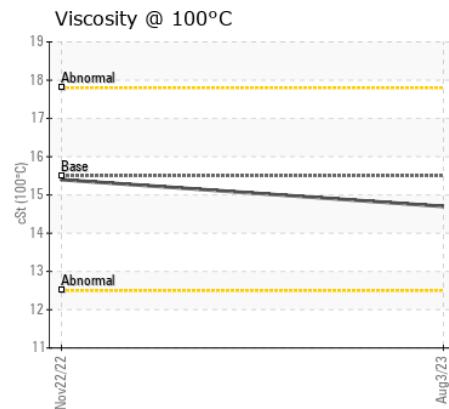
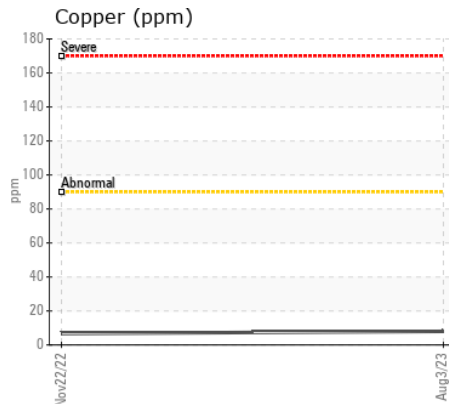
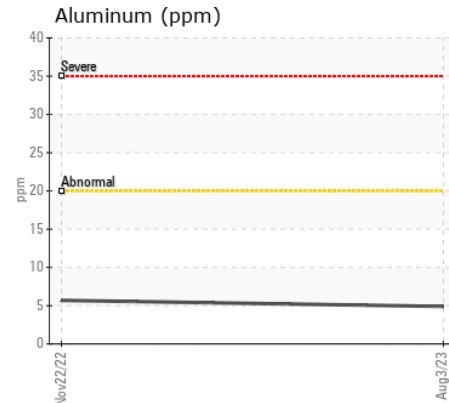
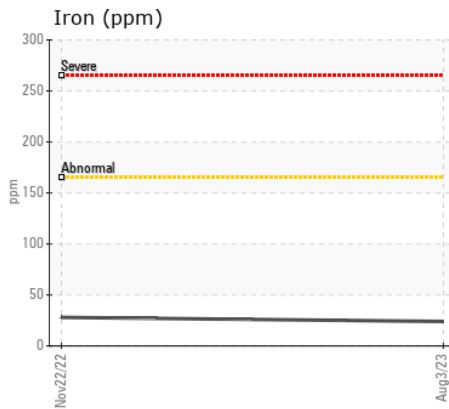
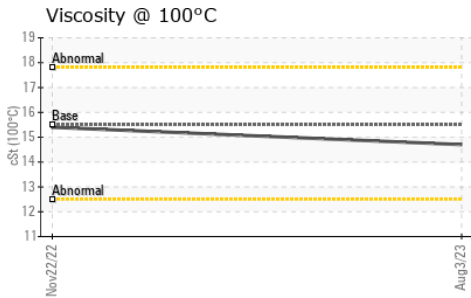
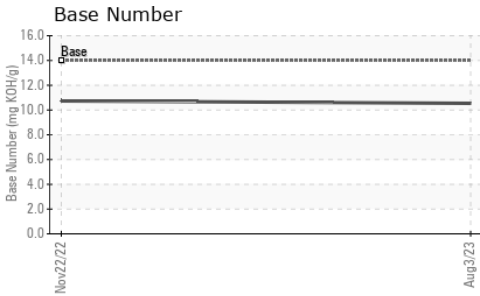
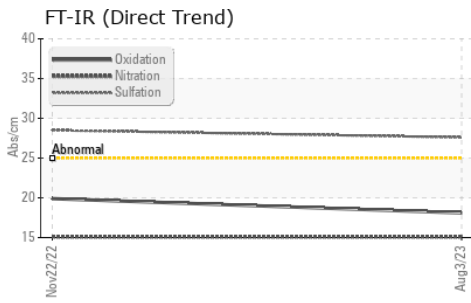
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	8	9	---
Potassium	ppm	ASTM D5185m	>20	6	11	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>7.5	1	1	---
Nitration	Abs/cm	*ASTM D7624	>20	15.1	15.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.6	28.5	---
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		4	4	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		139	153	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		17	29	---
Calcium	ppm	ASTM D5185m	1300	3845	4507	---
Phosphorus	ppm	ASTM D5185m		870	933	---
Zinc	ppm	ASTM D5185m	1300	997	1170	---
Sulfur	ppm	ASTM D5185m		4067	4987	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	19.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	14	10.54	10.73	---
Visc @ 100°C	cSt	ASTM D445	15.5	14.7	15.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06158505  
**Lab Number** : 06158505  
**Unique Number** : 10993928  
**Test Package** : MOB 2

**Received** : 23 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Wes Davis

**DIGGING & RIGGING II**  
 10 CHRISTINA COURT  
 SPARROWS POINT, MD  
 US 21219  
 Contact: Service Manager

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: