



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**RSI LS-875 1424**  
 Component  
**Propane Engine**  
 Fluid  
**TRC MOLY XL PROSPEC III 15W40 (10 QTS)**

**RECOMMENDATION**

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. Resample at the next service interval to monitor.

**WEAR**

Iron and nickel ppm levels are abnormal. Aluminum ppm levels are noted.

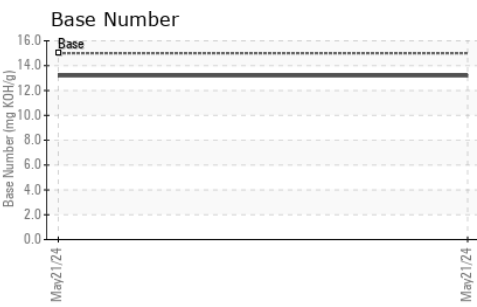
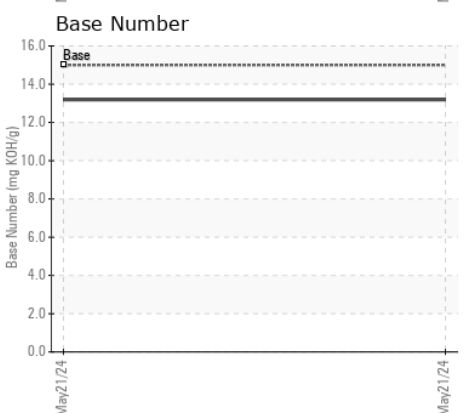
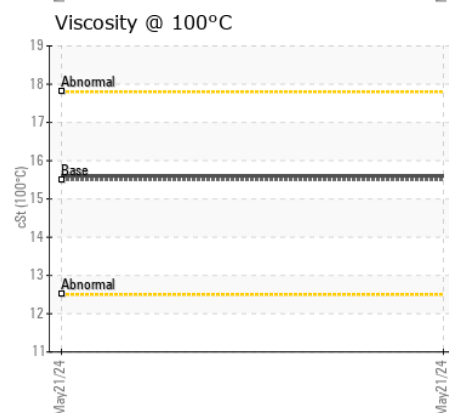
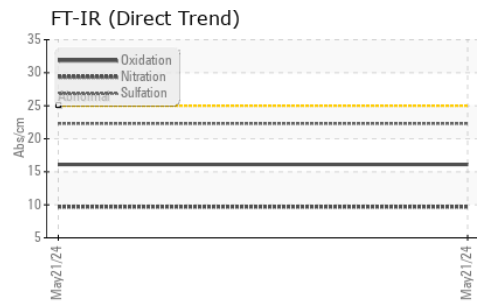
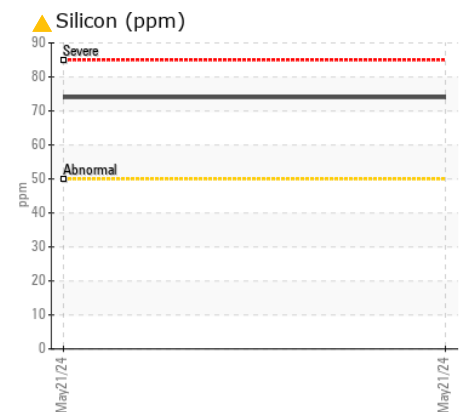
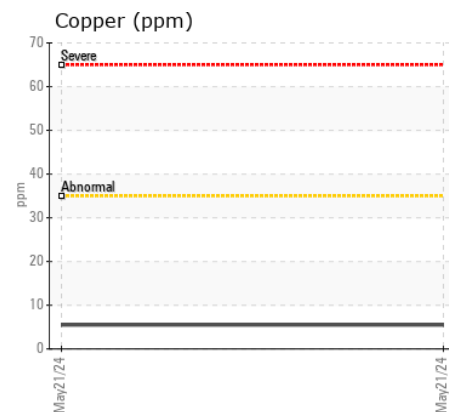
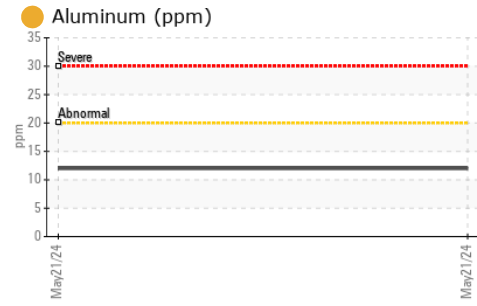
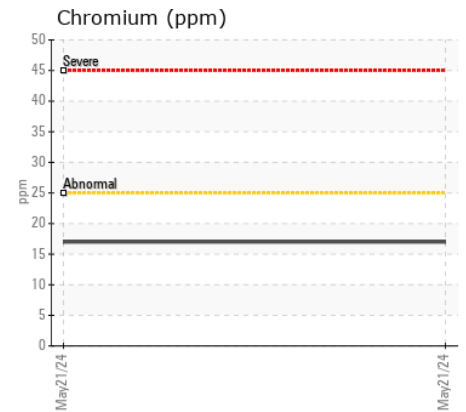
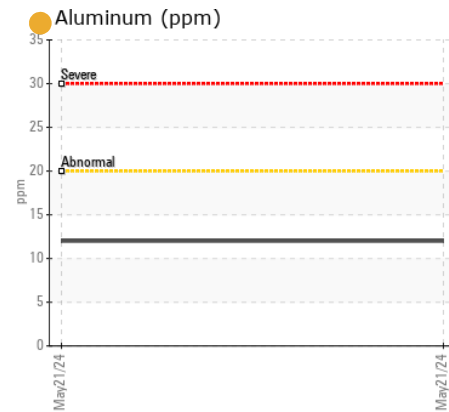
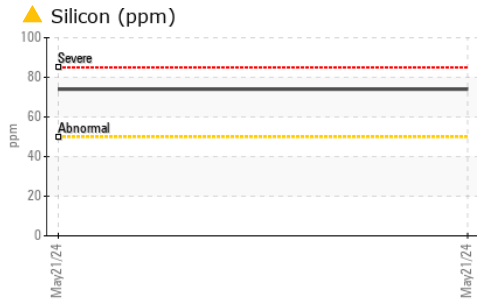
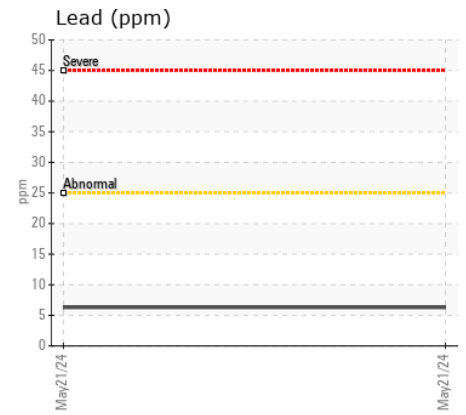
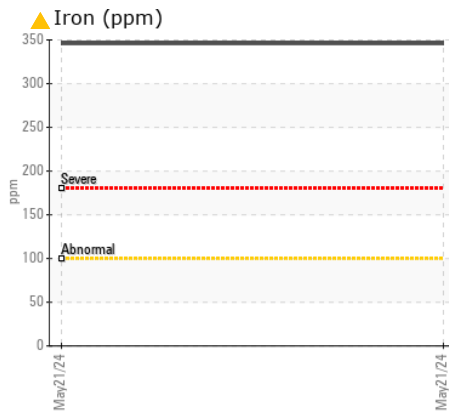
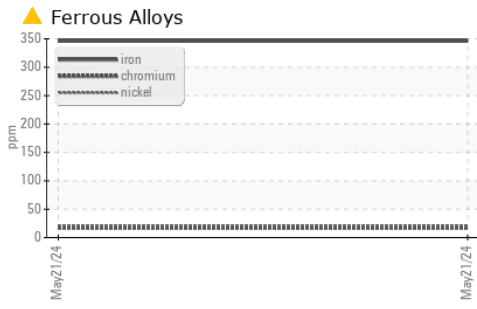
**CONTAMINATION**

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06194236	---	---
Sample Date		Client Info		21 May 2024	---	---
Machine Age	hrs	Client Info		5025	---	---
Oil Age	hrs	Client Info		75	---	---
Filter Age	hrs	Client Info		75	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>100	▲ 346	---	---
Chromium	ppm	ASTM D5185m	>25	17	---	---
Nickel	ppm	ASTM D5185m	>5	▲ 21	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m	>5	1	---	---
Aluminum	ppm	ASTM D5185m	>20	● 12	---	---
Lead	ppm	ASTM D5185m	>25	6	---	---
Copper	ppm	ASTM D5185m	>35	6	---	---
Tin	ppm	ASTM D5185m	>8	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 74	---	---
Potassium	ppm	ASTM D5185m	>20	10	---	---
Water		WC Method	>0.1	NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	---	---
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	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185m		7	---	---
Boron	ppm	ASTM D5185m		187	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		224	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m		470	---	---
Calcium	ppm	ASTM D5185m	4500	4111	---	---
Phosphorus	ppm	ASTM D5185m		865	---	---
Zinc	ppm	ASTM D5185m	1400	1058	---	---
Sulfur	ppm	ASTM D5185m		4122	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.19	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	15.6	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06194236  
**Lab Number** : 06194236  
**Unique Number** : 11056359  
**Test Package** : MOB 2  
**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 31 May 2024 - Angela Borella

**RSI**  
 15727 TEXACO AVE  
 PARAMOUNT, CA  
 US 90723  
 Contact: NORMAN MASSON

Certificate L2367  
 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)