TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
RSI LSG-875 2410
Component
Propane Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (8 QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

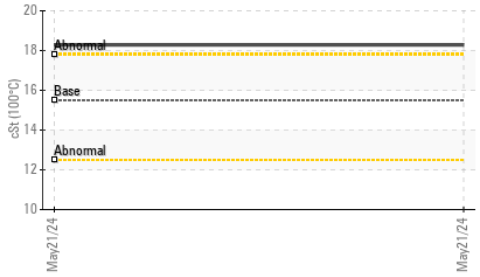
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

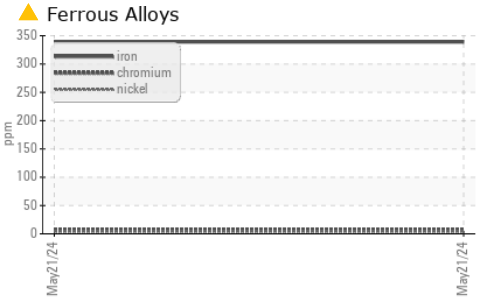
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06194237	---	---
Sample Date		Client Info		21 May 2024	---	---
Machine Age	hrs	Client Info		4097	---	---
Oil Age	hrs	Client Info		557	---	---
Filter Age	hrs	Client Info		557	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>100	▲ 339	---	---
Chromium	ppm	ASTM D5185m	>25	8	---	---
Nickel	ppm	ASTM D5185m	>5	4	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>5	1	---	---
Aluminum	ppm	ASTM D5185m	>20	● 32	---	---
Lead	ppm	ASTM D5185m	>25	18	---	---
Copper	ppm	ASTM D5185m	>35	10	---	---
Tin	ppm	ASTM D5185m	>8	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 43	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water		WC Method	>0.1	NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	14.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	32.8	---	---
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		8	---	---
Boron	ppm	ASTM D5185m		138	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		308	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m		554	---	---
Calcium	ppm	ASTM D5185m	4500	5089	---	---
Phosphorus	ppm	ASTM D5185m		977	---	---
Zinc	ppm	ASTM D5185m	1400	1293	---	---
Sulfur	ppm	ASTM D5185m		4785	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	12.44	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	▲ 18.28	---	---

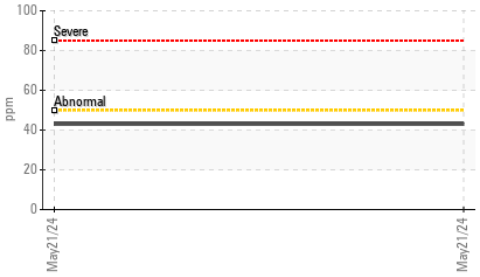
Viscosity @ 100°C



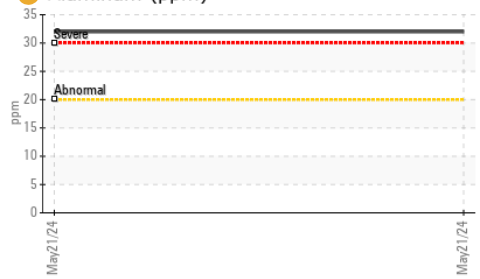
Ferrous Alloys



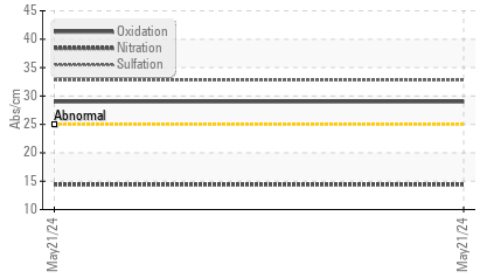
Silicon (ppm)



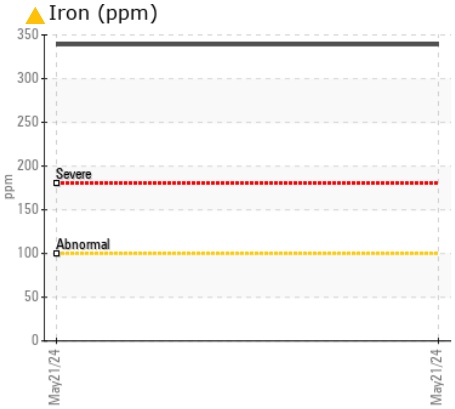
Aluminum (ppm)



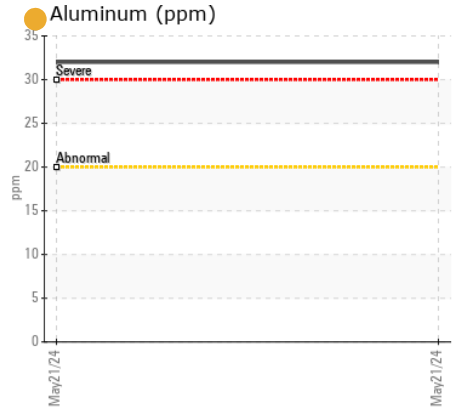
FT-IR (Direct Trend)



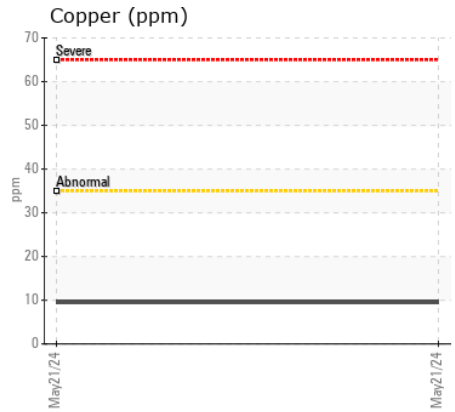
Iron (ppm)



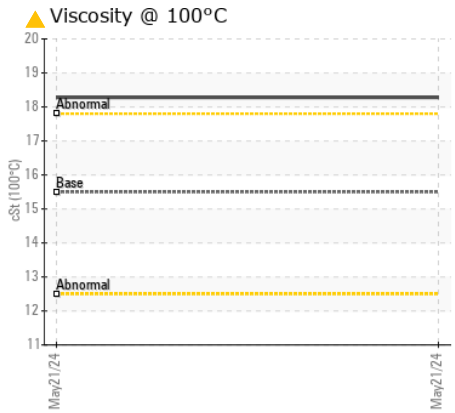
Aluminum (ppm)



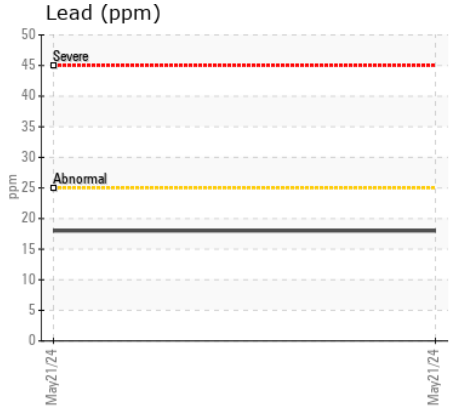
Copper (ppm)



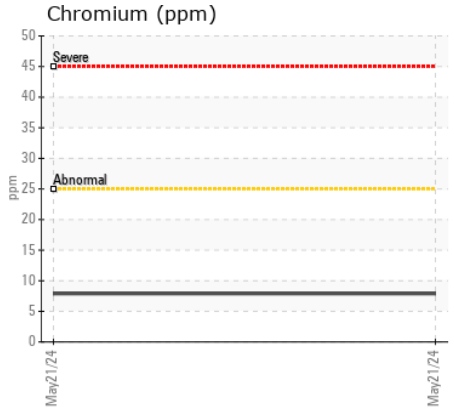
Viscosity @ 100°C



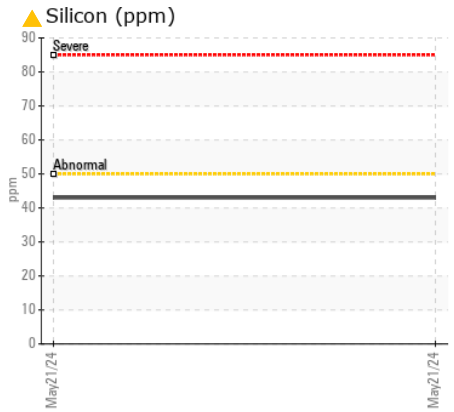
Lead (ppm)



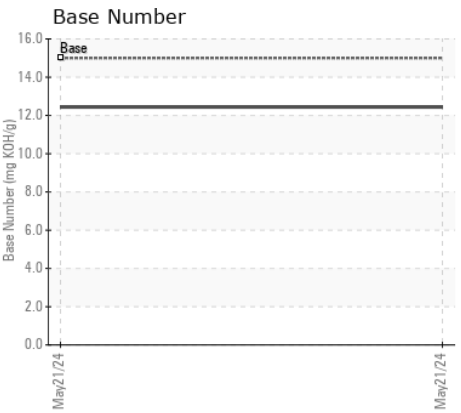
Chromium (ppm)



Silicon (ppm)



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06194237
Lab Number : 06194237
Unique Number : 11056360
Test Package : MOB 2

Received : 29 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Jonathan Hester

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

T:
F:

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)