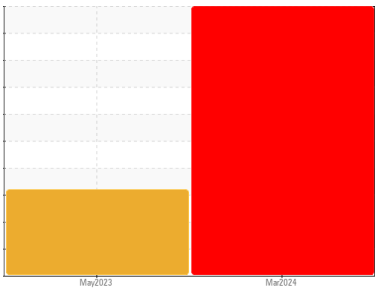
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
RSI LSG-875 424 - ENGINE 2
Component
Rear Liquid Petroleum Gas
Fluid
MOLY XL PRO-SPEC LP/NP 15W40 (10 QTS)

DIAGNOSIS

Recommendation
We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear
Piston, ring and cylinder wear is indicated. Valve wear is indicated.

Contamination
Sodium and/or potassium levels are high. 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. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TR06135754**	TR05849871	---
Sample Date		Client Info		**26 Mar 2024**	16 May 2023	---
Machine Age	hrs	Client Info		**3280**	1237	---
Oil Age	hrs	Client Info		**1507**	350	---
Oil Changed		Client Info		**Not Changd**	Changed	---
Sample Status				**SEVERE**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	▲ **607**	▲ 171	---
Chromium	ppm	ASTM D5185m	>10	▲ **50**	6	---
Nickel	ppm	ASTM D5185m	>5	▲ **61**	2	---
Titanium	ppm	ASTM D5185m		**2**	<1	---
Silver	ppm	ASTM D5185m	>5	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	● **41**	● 8	---
Lead	ppm	ASTM D5185m	>40	**18**	25	---
Copper	ppm	ASTM D5185m	>300	**12**	2	---
Tin	ppm	ASTM D5185m	>10	**1**	3	---
Vanadium	ppm	ASTM D5185m		**1**	<1	---
Cadmium	ppm	ASTM D5185m		**<1**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**106**	35	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**415**	172	---
Manganese	ppm	ASTM D5185m		**8**	4	---
Magnesium	ppm	ASTM D5185m		**871**	480	---
Calcium	ppm	ASTM D5185m		**7834**	1475	---
Phosphorus	ppm	ASTM D5185m		**1794**	590	---
Zinc	ppm	ASTM D5185m		**2032**	751	---
Sulfur	ppm	ASTM D5185m		**6524**	4877	---

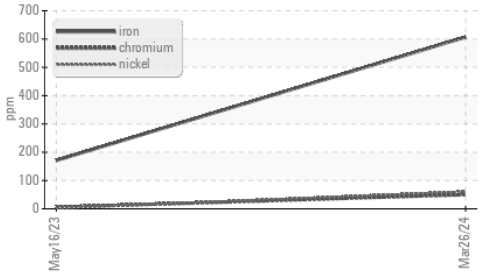
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ **62**	▲ 35	---
Sodium	ppm	ASTM D5185m		**16**	4	---
Potassium	ppm	ASTM D5185m	>20	**18**	5	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	**21.4**	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**41.4**	22.9	---

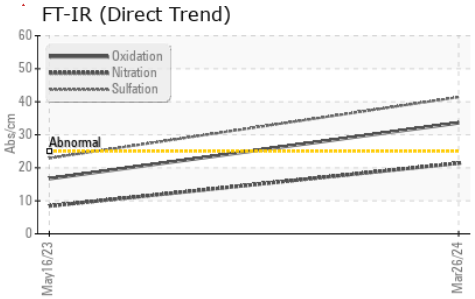
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**33.6**	16.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		**19.30**	5.87	---

OIL ANALYSIS REPORT

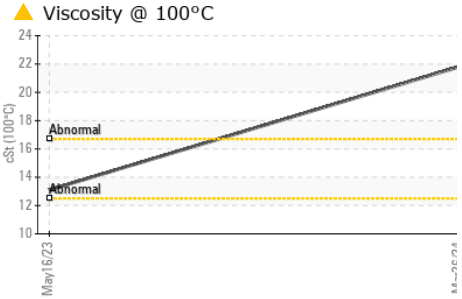
Ferrous Alloys



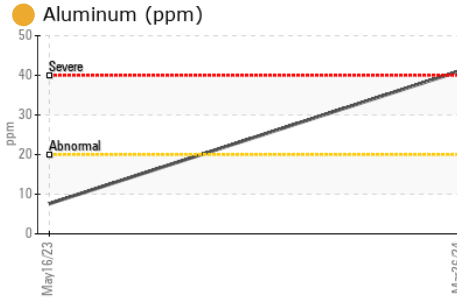
FT-IR (Direct Trend)



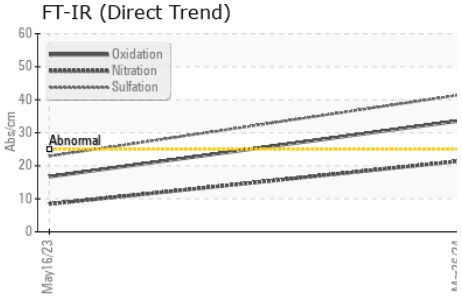
Viscosity @ 100°C



Aluminum (ppm)



FT-IR (Direct Trend)

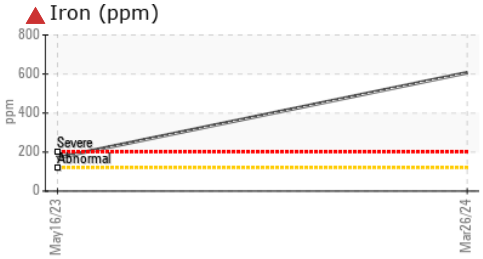


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

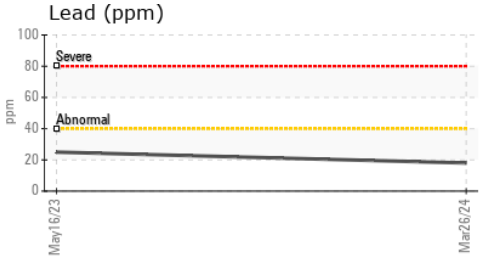
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		▲ **21.8**	13.1	---

GRAPHS

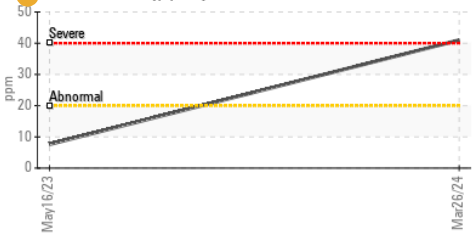
Iron (ppm)



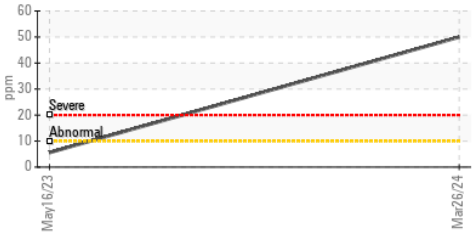
Lead (ppm)



Aluminum (ppm)

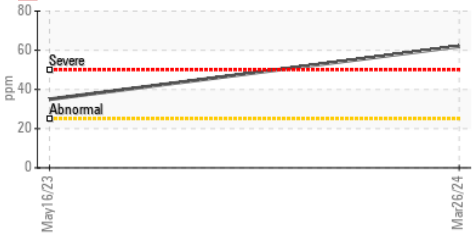


Chromium (ppm)

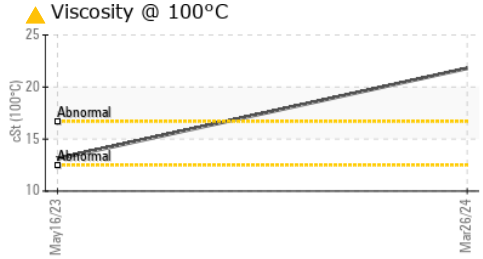


Copper (ppm)

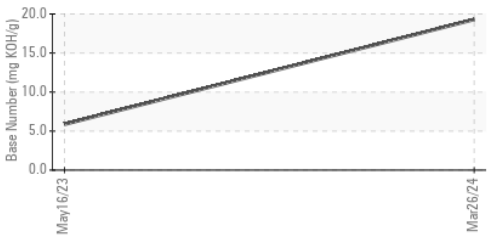
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06135754
Lab Number : 06135754
Unique Number : 10955219
Test Package : MOB 2

Received : 01 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 04 Apr 2024 - Jonathan Hester

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

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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