



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**1255182**

Component  
**Gearbox**

Fluid  
**TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (174 GAL)**

**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		<b>TO10002970</b>	TO1001961	TO1006821
Sample Date		Client Info		<b>04 Feb 2024</b>	29 Sep 2020	05 Nov 2019
Machine Age	hrs	Client Info		<b>0</b>	0	1750
Oil Age	hrs	Client Info		<b>1000</b>	0	1750
Filter Age	hrs	Client Info		<b>300</b>	0	1750
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>200	<b>1</b>	4	2
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	2	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	19	18
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

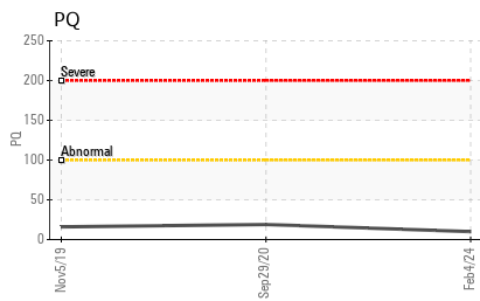
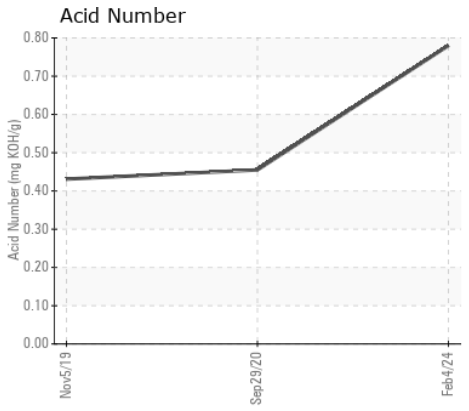
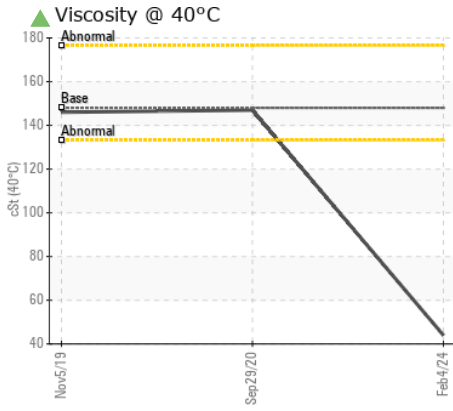
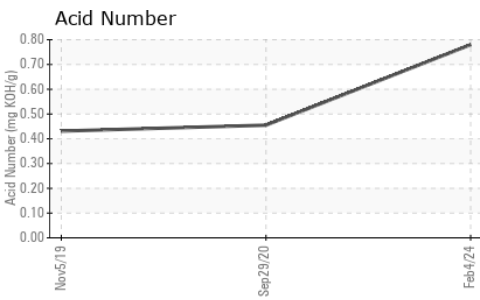
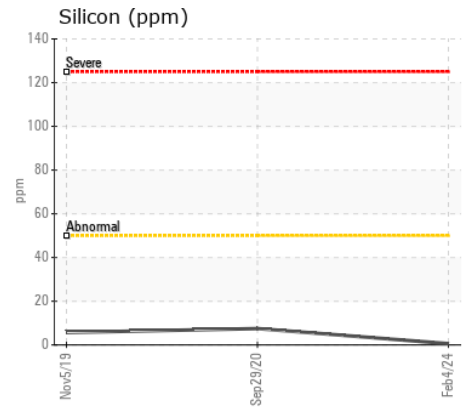
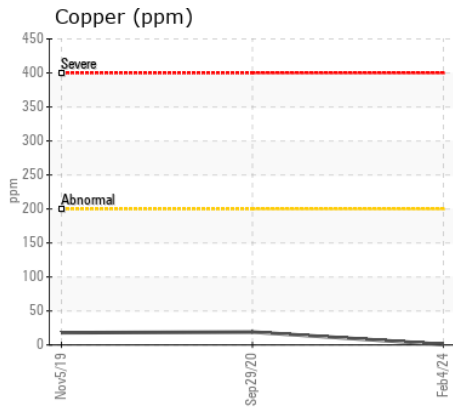
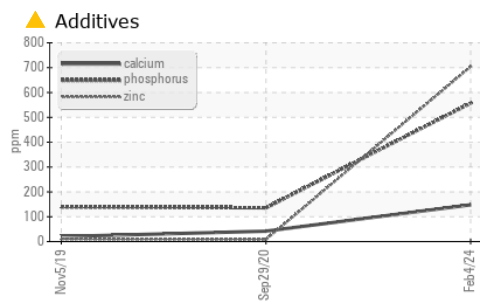
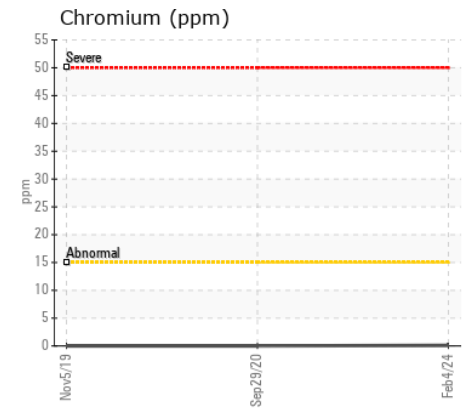
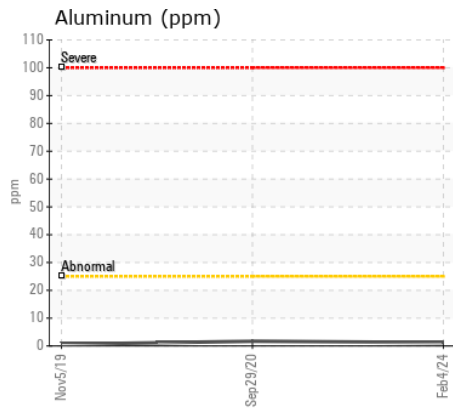
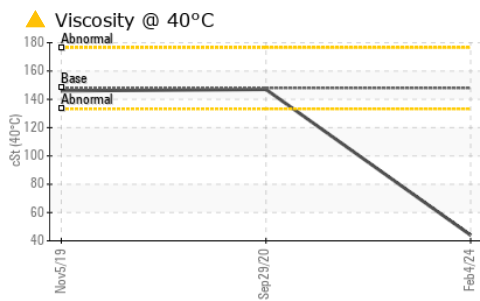
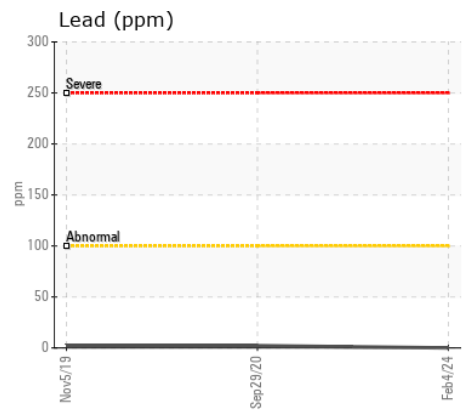
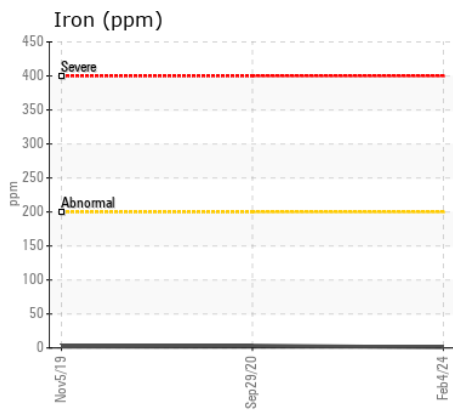
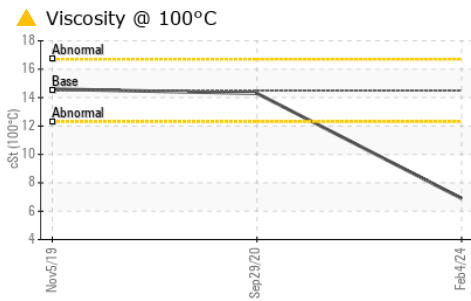
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>&lt;1</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	13	<b>0</b>	4	3
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>▲ 155</b>	2	3
Calcium	ppm	ASTM D5185m		<b>▲ 148</b>	42	20
Phosphorus	ppm	ASTM D5185m	170	<b>557</b>	136	139
Zinc	ppm	ASTM D5185m		<b>▲ 704</b>	8	10
Sulfur	ppm	ASTM D5185m	6300	<b>▲ 2244</b>	5220	2937
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.78</b>	0.455	0.431
Visc @ 40°C	cSt	ASTM D445	148	<b>▲ 44.0</b>	147	146
Visc @ 100°C	cSt	ASTM D445	14.5	<b>▲ 6.9</b>	14.3	14.6
Viscosity Index (VI)	Scale	ASTM D2270	96	<b>113</b>	94	98



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO10002970

Lab Number : 06089600

Unique Number : 10877045

Test Package : MOB 2 ( Additional Tests: KV100, PQ, VI )

Received : 14 Feb 2024

Tested : 16 Feb 2024

Diagnosed : 16 Feb 2024 - Jonathan Hester

**ANCHOR STONE TULSA ROCK**

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F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)