



**OIL ANALYSIS REPORT**

WEAR	<b>ATTENTION</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**T11**  
Component  
**1 Differential**  
Fluid  
**TRC MOLY ULTRA-TEC GEAR OIL 85W140 (10 GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system.  
We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR0001467</b>	TR0001215	TR0000790
Sample Date		Client Info		<b>23 Feb 2024</b>	18 Oct 2023	13 Feb 2023
Machine Age	hrs	Client Info		<b>8274</b>	7644	6188
Oil Age	hrs	Client Info		<b>8274</b>	7644	6188
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>411</b>	102	478
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 36</b>	0	1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185m	>10	<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**

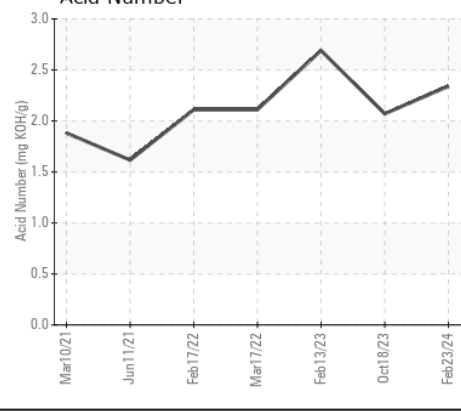
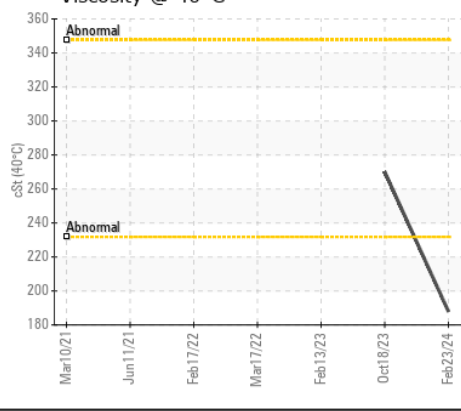
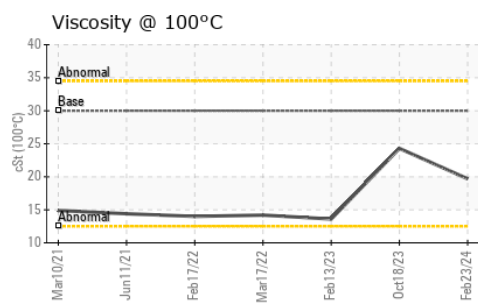
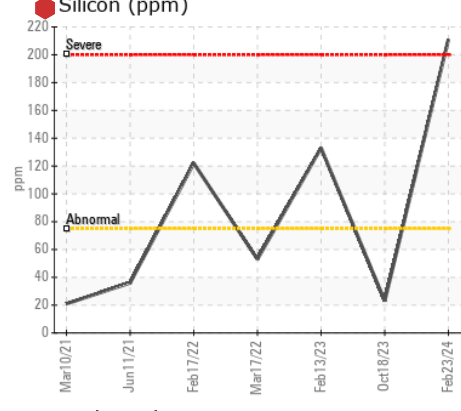
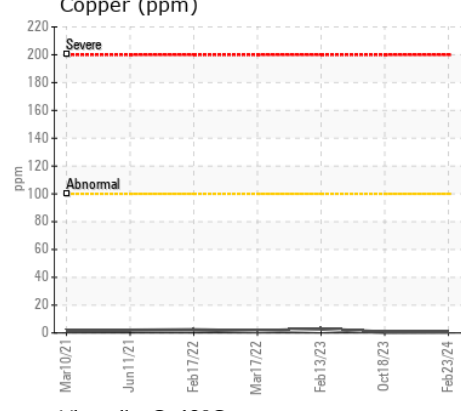
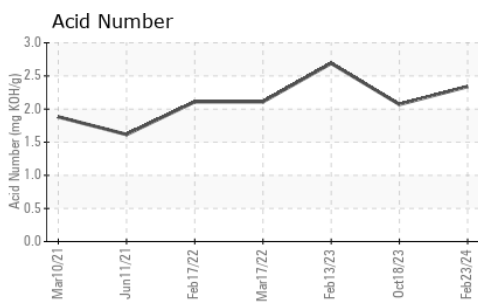
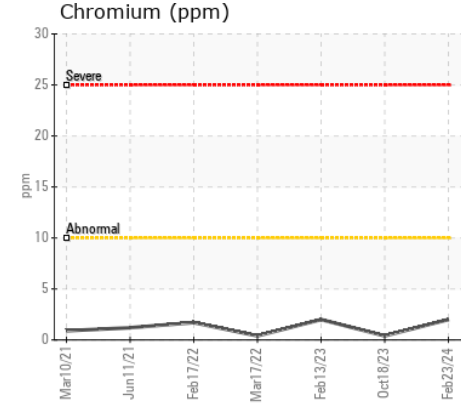
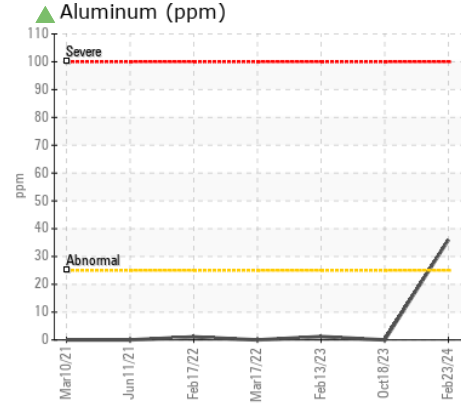
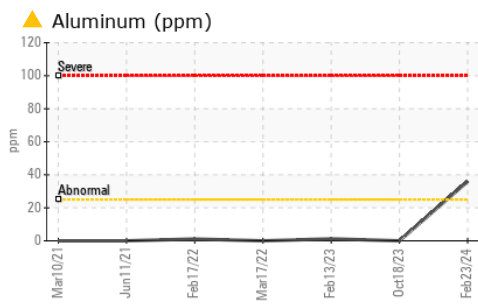
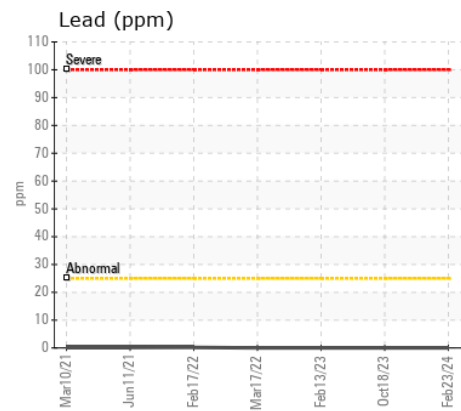
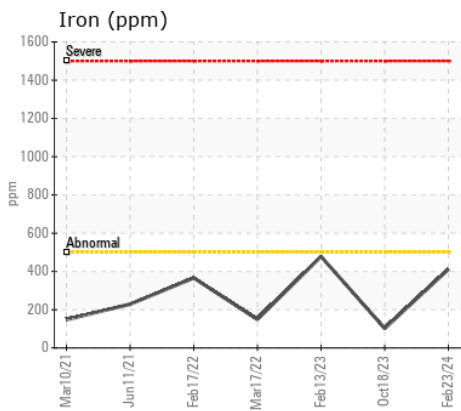
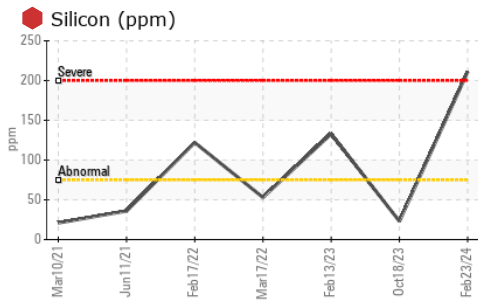
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>◆ 211</b>	23	<b>▲ 133</b>
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	3	7
Boron	ppm	ASTM D5185m		<b>283</b>	328	246
Barium	ppm	ASTM D5185m		<b>3</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>11</b>	4	14
Magnesium	ppm	ASTM D5185m		<b>12</b>	<1	<1
Calcium	ppm	ASTM D5185m		<b>121</b>	10	11
Phosphorus	ppm	ASTM D5185m		<b>1315</b>	1110	1301
Zinc	ppm	ASTM D5185m		<b>4</b>	9	0
Sulfur	ppm	ASTM D5185m		<b>21547</b>	20207	24445
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.34</b>	2.07	2.69
Visc @ 40°C	cSt	ASTM D445		<b>188</b>	270	---
Visc @ 100°C	cSt	ASTM D445	30	<b>19.7</b>	24.3	13.6
Viscosity Index (VI)	Scale	ASTM D2270	105	<b>120</b>	113	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0001467 **Received** : 26 Feb 2024  
**Lab Number** : 06101099 **Tested** : 27 Feb 2024  
**Unique Number** : 10899329 **Diagnosed** : 27 Feb 2024 - Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI)

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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)