



# OIL ANALYSIS REPORT

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

Machine Id

**4556**

Component

**4 Gearbox**

Fluid

**CASTROL OPTIGEAR SYNTHETIC RMO 150 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0920069</b>	---	---
Sample Date		Client Info		<b>26 May 2024</b>	---	---
Machine Age	mls	Client Info		<b>44239</b>	---	---
Oil Age	mls	Client Info		<b>44239</b>	---	---
Filter Age	mls	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>400	<b>38</b>	---	---
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>65	<b>9</b>	---	---
Lead	ppm	ASTM D5185m	>5	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>100	<b>37</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

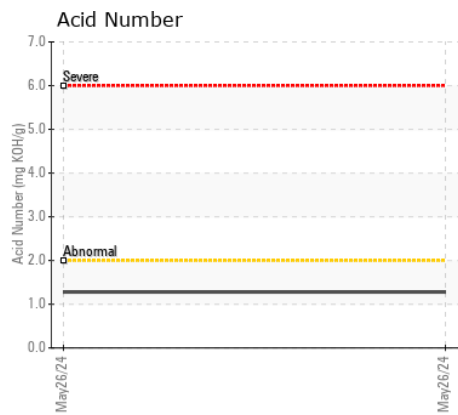
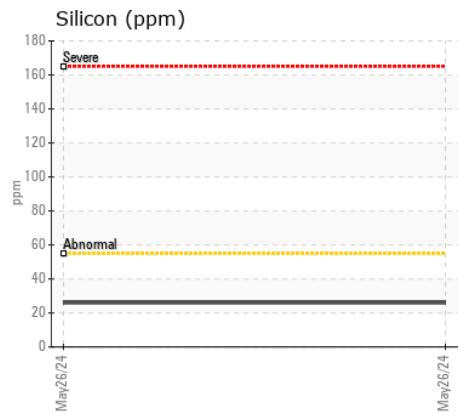
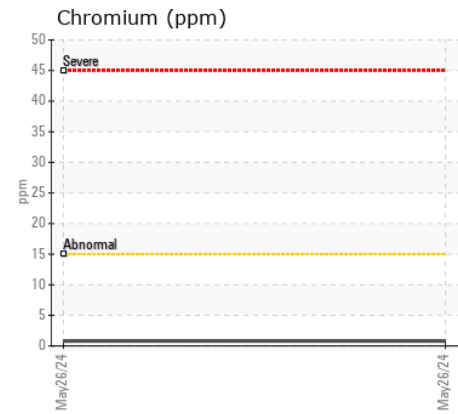
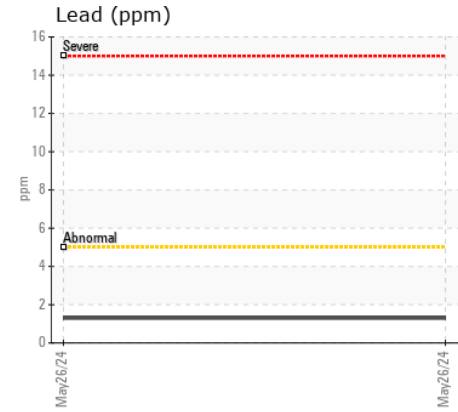
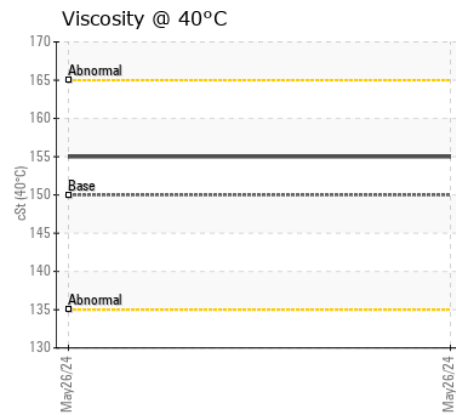
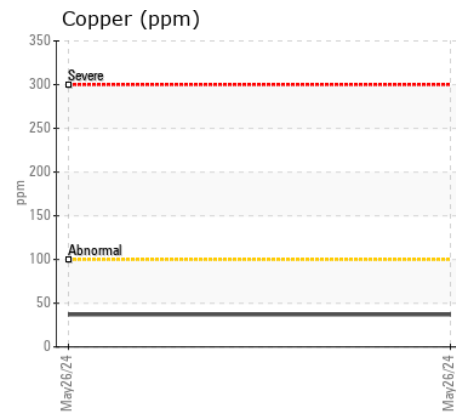
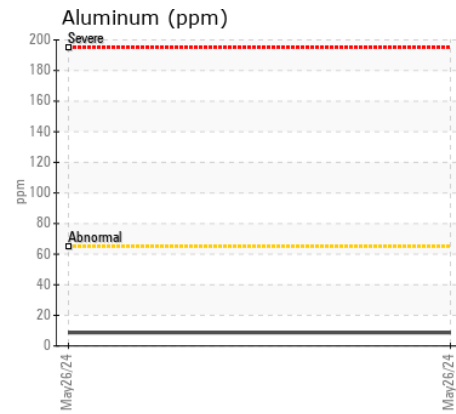
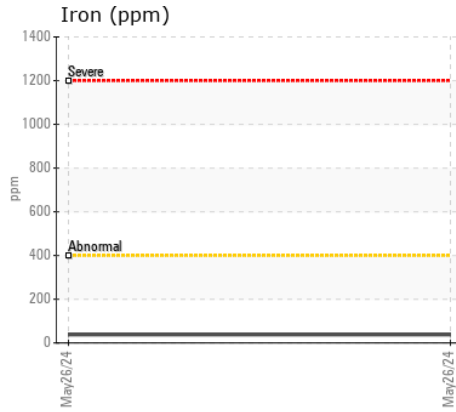
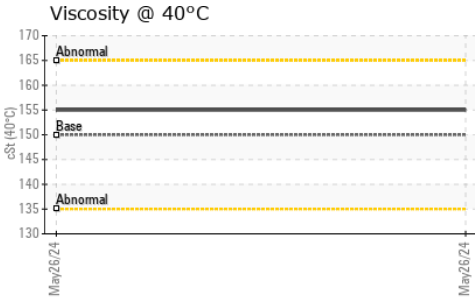
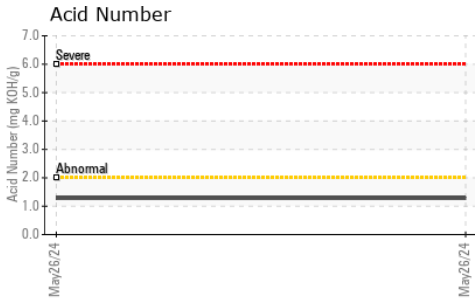
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>55	<b>26</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.3	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.3	<b>NEG</b>	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m		<b>9</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>947</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	---	---
Calcium	ppm	ASTM D5185m		<b>216</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>520</b>	---	---
Zinc	ppm	ASTM D5185m		<b>121</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>14859</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.28</b>	---	---
Visc @ 40°C	cSt	ASTM D445	150	<b>155</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0920069  
**Lab Number** : 06228102  
**Unique Number** : 11111595  
**Test Package** : MOB 2

**Received** : 03 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Doug Bogart

**ALSTOM C/O NEW JERSEY TRANSIT**  
 1148 NEWARK TURNPIKE  
 KEARNY, NJ  
 US 07032  
 Contact: DAVE GILBERT  
 david.gilbert@alstomgroup.com

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)

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