



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**GATE B-28 (S/N 05273TB4331807)**

Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0569678</b>	WC0569717	---
Sample Date		Client Info		<b>23 Apr 2024</b>	11 Apr 2022	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		<b>0</b>	<1	---
Chromium	ppm	ASTM D5185m		<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m		<b>9</b>	16	---
Lead	ppm	ASTM D5185m		<b>0</b>	<1	---
Copper	ppm	ASTM D5185m		<b>0</b>	<1	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

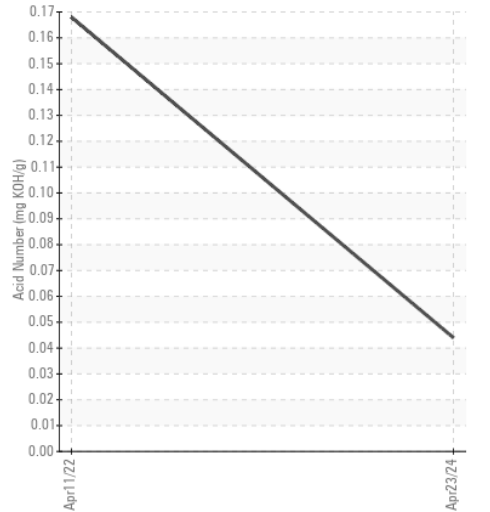
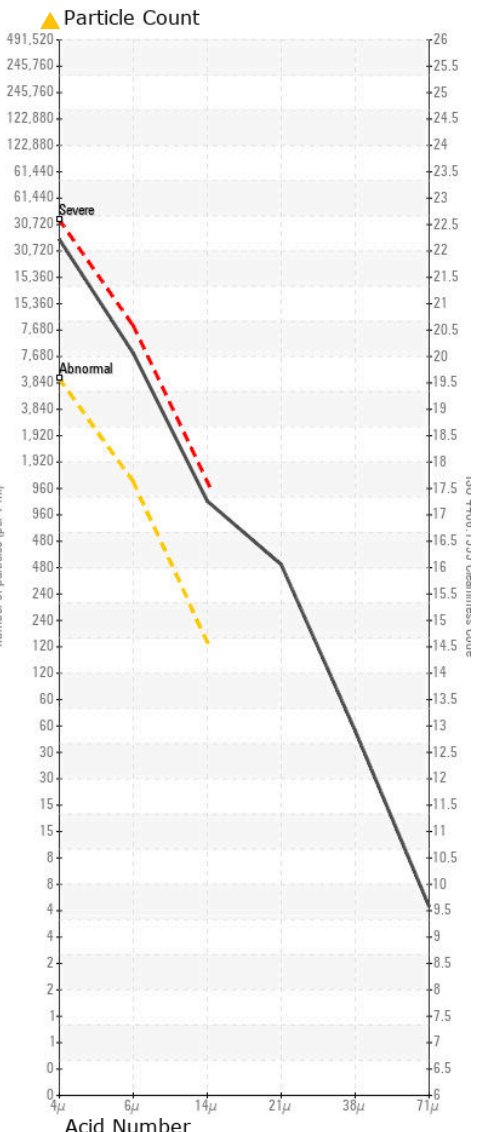
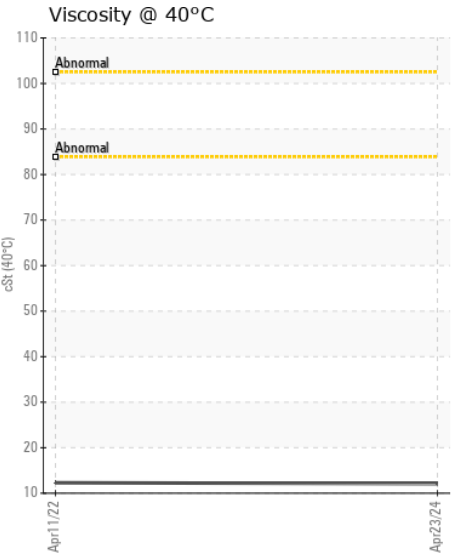
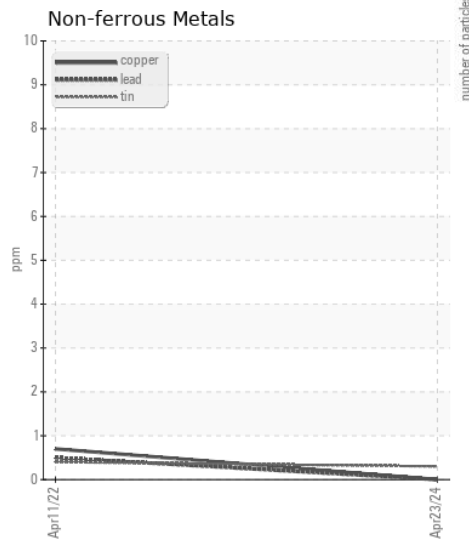
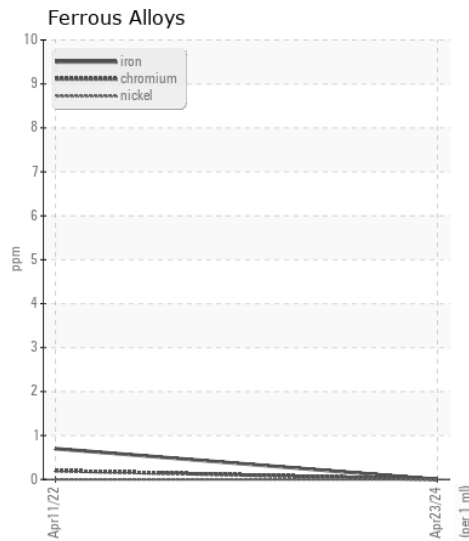
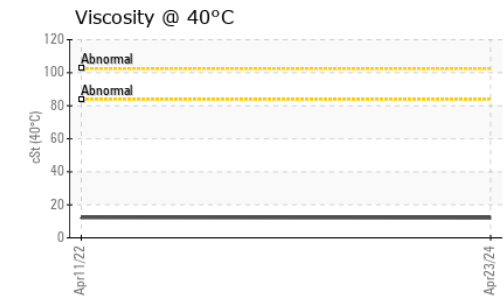
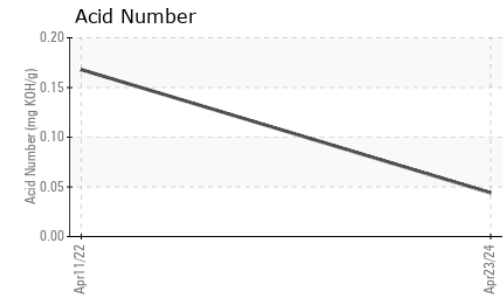
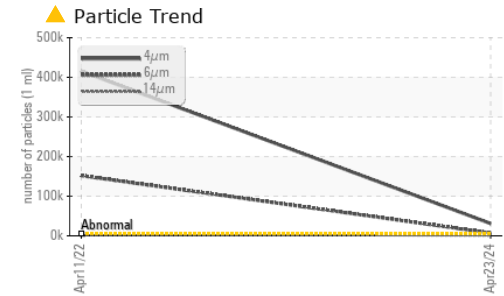
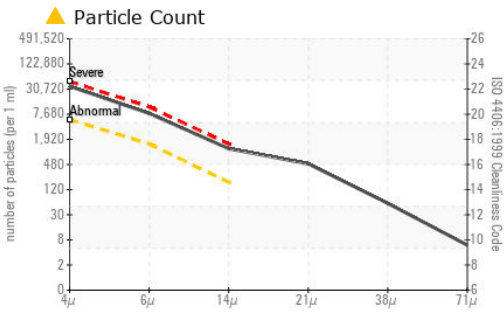
There is a high amount of particulates present in the oil. High concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m		<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water		WC Method		<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ <b>30986</b>	▲ 415631	---
Particles >6µm		ASTM D7647	>1300	▲ <b>6982</b>	▲ 151910	---
Particles >14µm		ASTM D7647	>160	▲ <b>1008</b>	▲ 2674	---
Particles >21µm		ASTM D7647	>40	▲ <b>439</b>	▲ 798	---
Particles >38µm		ASTM D7647	>10	▲ <b>50</b>	▲ 138	---
Particles >71µm		ASTM D7647	>3	▲ <b>5</b>	▲ 16	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ <b>22/20/17</b>	▲ 26/24/19	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	▲ <b>HEAVY</b>	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual		<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Boron	ppm	ASTM D5185m		<b>0</b>	<1	---
Barium	ppm	ASTM D5185m		<b>3</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>16</b>	22	---
Phosphorus	ppm	ASTM D5185m		<b>449</b>	451	---
Zinc	ppm	ASTM D5185m		<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m		<b>314</b>	396	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.044</b>	0.168	---
Visc @ 40°C	cSt	ASTM D445		<b>12.1</b>	12.3	---
Visc @ 100°C	cSt	ASTM D445		<b>---</b>	5.01	---
Viscosity Index (VI)	Scale	ASTM D2270		<b>---</b>	426	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0569678  
**Lab Number** : 06159534  
**Unique Number** : 10994957  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI )

**Received** : 24 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Jonathan Hester

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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)