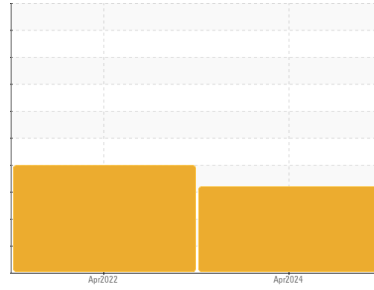




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

## GATE B-28 (S/N 05273TB4331807)

Component

New (Unused) Oil

Fluid

{not provided} (--- GAL)

### DIAGNOSIS

#### Recommendation

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

#### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	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	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method		<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
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	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
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	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---

### FLUID CLEANLINESS

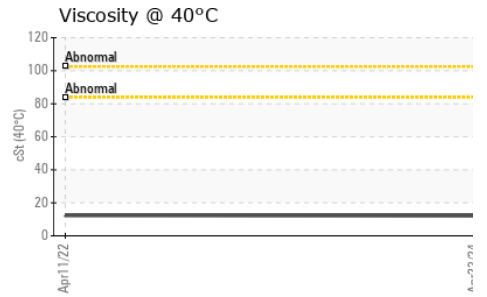
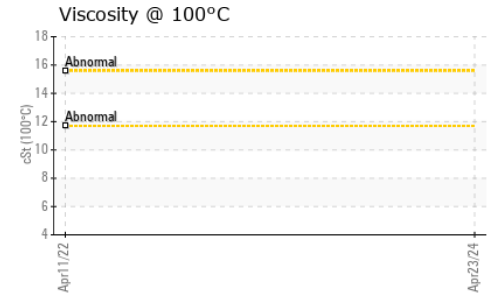
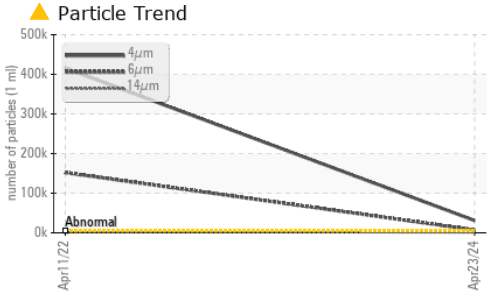
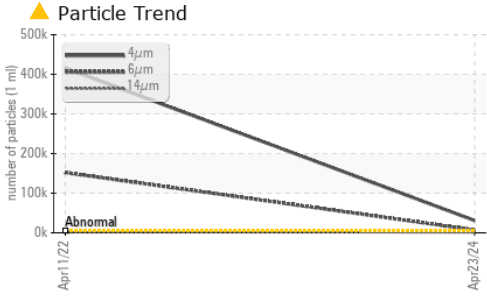
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 30986</b>	▲ 415631	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 6982</b>	▲ 151910	---
Particles >14µm	ASTM D7647	>160	<b>▲ 1008</b>	▲ 2674	---
Particles >21µm	ASTM D7647	>40	<b>▲ 439</b>	▲ 798	---
Particles >38µm	ASTM D7647	>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	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.044</b>	0.168	---



# OIL ANALYSIS REPORT



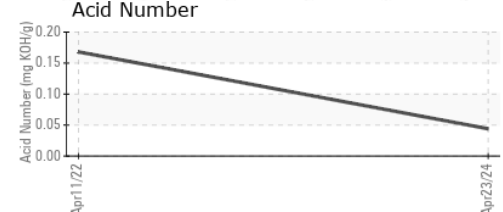
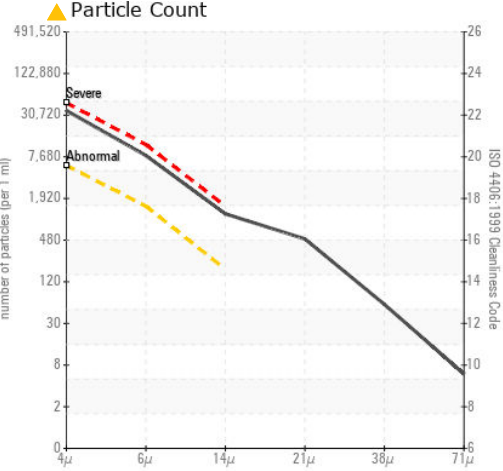
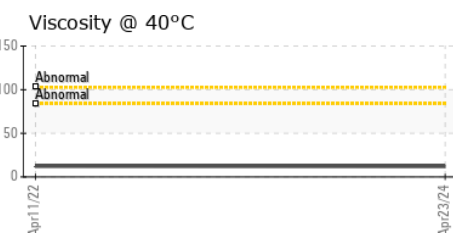
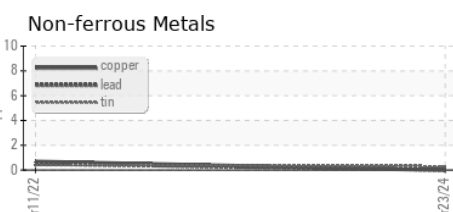
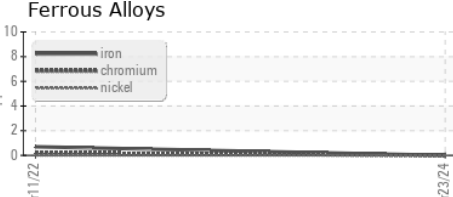
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	▲ <b>HEAVY</b>	▲ 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	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>12.1</b>	12.3	---
Visc @ 100°C	cSt	ASTM D445	---	5.01	---
Viscosity Index (VI)	Scale	ASTM D2270	---	426	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color						no image
Bottom						no image

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0569678      **Received** : 24 Apr 2024  
**Lab Number** : **06159534**      **Tested** : 26 Apr 2024  
**Unique Number** : 10994957      **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI )

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 T: (617)455-3769  
 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)