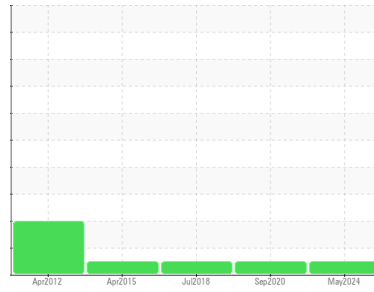




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**CINCINATI BRAKE-01 (S/N 48757)**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DTE 25 (160 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0768849</b>	WCI2320277	WCI2320262
Sample Date	Client Info			<b>10 May 2024</b>	08 Sep 2020	04 Jul 2018
Machine Age	hrs	Client Info		<b>78858</b>	73000	67057
Oil Age	hrs	Client Info		<b>21000</b>	20000	40000
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0

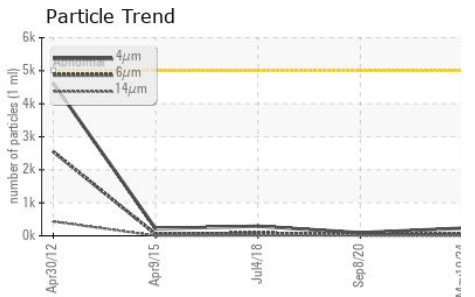
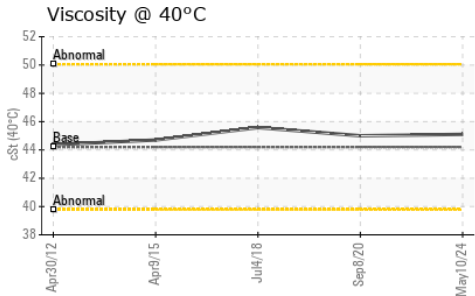
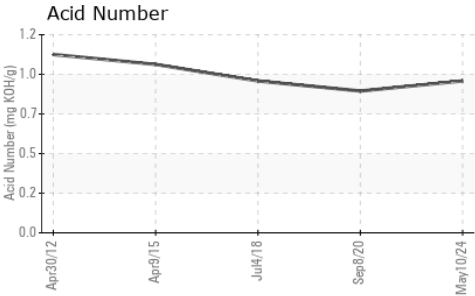
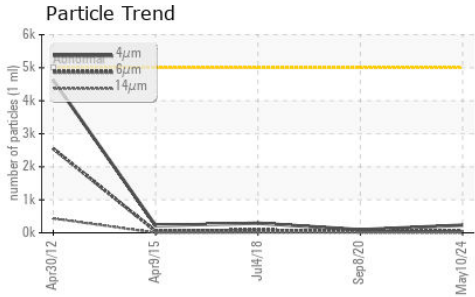
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	6	5
Calcium	ppm	ASTM D5185m		<b>146</b>	144	143
Phosphorus	ppm	ASTM D5185m		<b>542</b>	494	474
Zinc	ppm	ASTM D5185m		<b>757</b>	706	657
Sulfur	ppm	ASTM D5185m		<b>8243</b>	6419	7991

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>2</b>	2	1
Sodium	ppm	ASTM D5185m		<b>1</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>233</b>	93	292
Particles >6µm		ASTM D7647	>1300	<b>41</b>	33	79
Particles >14µm		ASTM D7647	>160	<b>4</b>	9	10
Particles >21µm		ASTM D7647	>40	<b>2</b>	5	4
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>15/13/9</b>	14/12/10	15/13/10



# OIL ANALYSIS REPORT

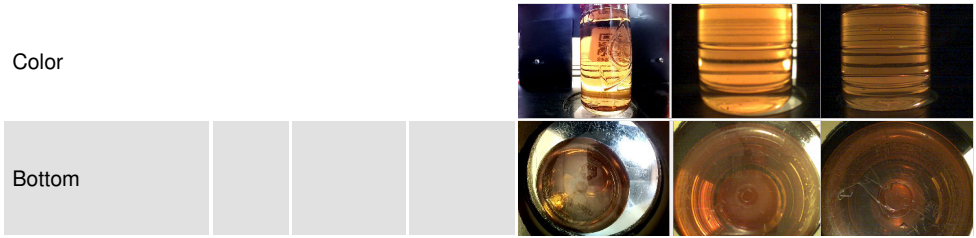


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.92</b>	0.859	0.920

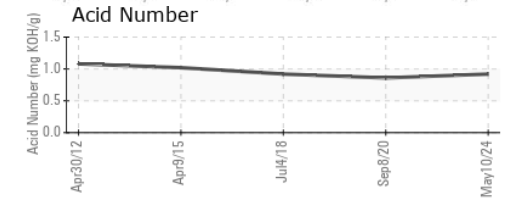
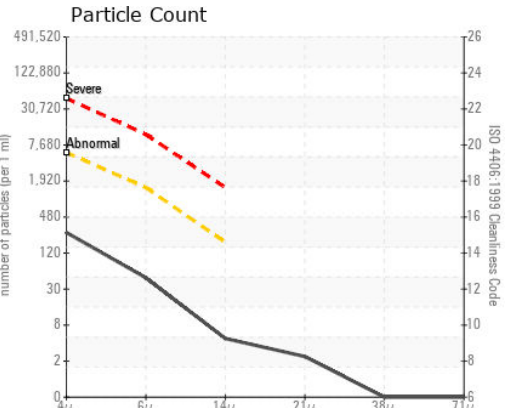
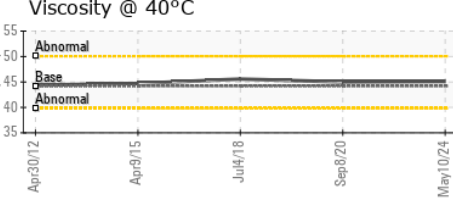
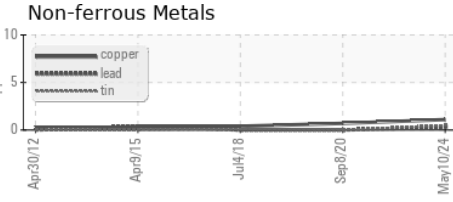
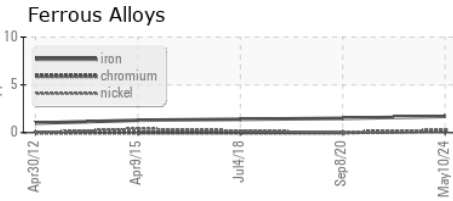
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>45.1</b>	45.0	45.58

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0768849      **Received** : 15 May 2024  
**Lab Number** : **06180116**      **Tested** : 16 May 2024  
**Unique Number** : 11031442      **Diagnosed** : 17 May 2024 - Don Baldrige  
**Test Package** : IND 2

**JACO INC**  
 140 CONSTITUTION BLVD  
 FRANKLIN, MA  
 US 02038

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

Contact: RICH GONGOL  
 rgongol@jacoinc.com; rgongol@msn.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (508)446-7480

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (508)553-1099