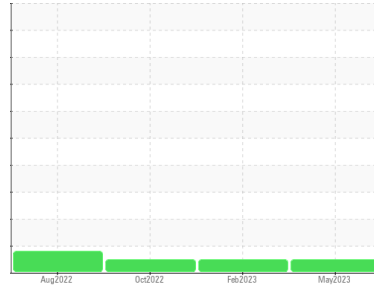




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**BAE SYSTEM**  
 Machine Id  
**B2558 HEADSTOCK**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DTE 24 (--- 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	history 1	history 2
Sample Number	Client Info		<b>WC0802163</b>	WC0774459	WC0749760
Sample Date	Client Info		<b>26 May 2023</b>	02 Feb 2023	27 Oct 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >20	<b>6</b>	7	7
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>17</b>	13	13
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >20	<b>7</b>	6	5
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>115</b>	112	104
Phosphorus	ppm	ASTM D5185m	<b>420</b>	429	440
Zinc	ppm	ASTM D5185m	<b>563</b>	621	661
Sulfur	ppm	ASTM D5185m	<b>5423</b>	6058	5935

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >15	<b>4</b>	3	4
Sodium	ppm	ASTM D5185m	<b>4</b>	4	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0

## FLUID CLEANLINESS

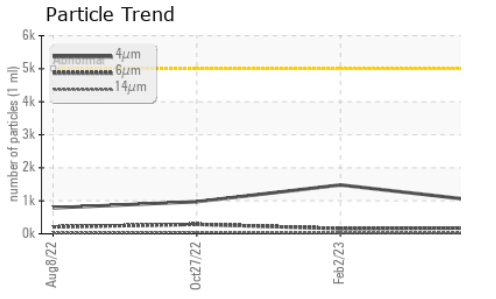
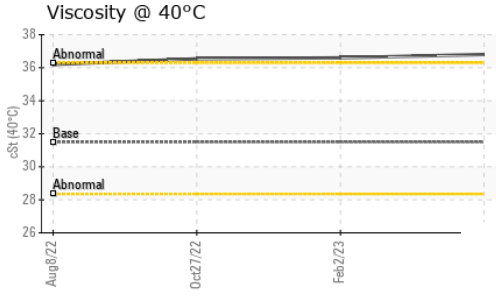
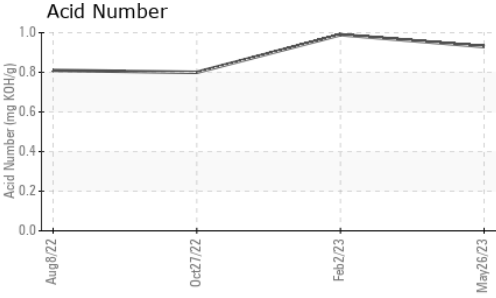
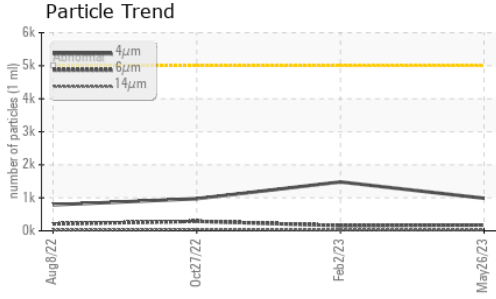
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>5000	<b>987</b>	1480	973
Particles >6µm	ASTM D7647	>1300	<b>176</b>	158	287
Particles >14µm	ASTM D7647	>160	<b>19</b>	24	41
Particles >21µm	ASTM D7647	>40	<b>4</b>	12	10
Particles >38µm	ASTM D7647	>10	<b>0</b>	8	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	2	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	18/14/12	17/15/13

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.93</b>	0.99	0.80



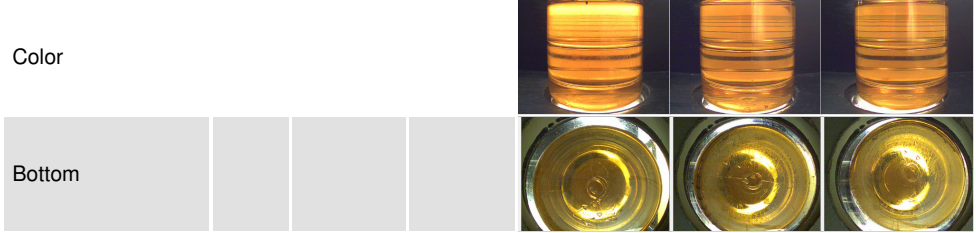
# OIL ANALYSIS REPORT



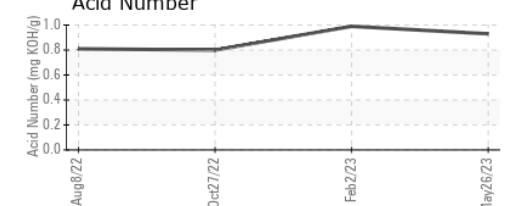
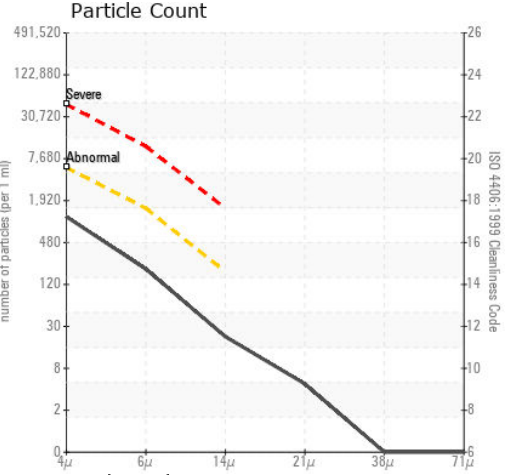
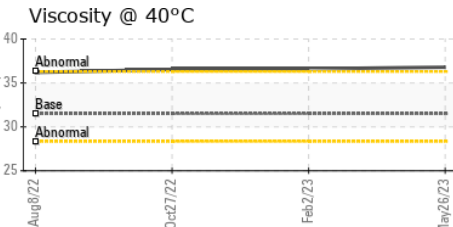
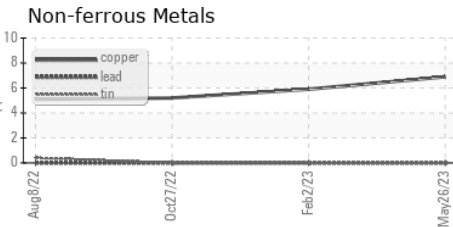
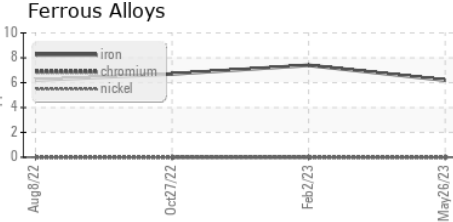
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	31.5	36.8	36.6

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------



## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0802163 Received : 02 Jun 2023  
 Lab Number : 05863592 Diagnosed : 06 Jun 2023  
 Unique Number : 10498057 Diagnostician : Don Baldrige  
 Test Package : IND 2

**MOTOR TECHNOLOGY INC**  
 515 WILLOW SPRINGS LN  
 YORK, PA  
 US 17406

Contact: Bill Trimmer  
 btrimmer@motortechologyinc.com

T: (717)266-4045

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)