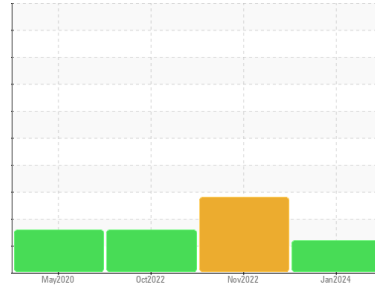




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

## TRIPLE M

Component

### Hydraulic System

Fluid

### AW HYDRAULIC OIL ISO 46 (--- GAL)

#### DIAGNOSIS

##### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

##### Wear

All component wear rates are normal.

##### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

##### 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>WC0701759</b>	WC0701753	WC0701752
Sample Date	Client Info		<b>16 Jan 2024</b>	01 Nov 2022	19 Oct 2022
Machine Age	wks	Client Info	<b>0</b>	0	144
Oil Age	wks	Client Info	<b>156</b>	0	12
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

#### 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>3</b>	4	2
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >20	<b>2</b>	3	2
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

#### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>3</b>	<1	0
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 25	<b>4</b>	<1	<1
Calcium	ppm	ASTM D5185m 200	<b>64</b>	72	74
Phosphorus	ppm	ASTM D5185m 300	<b>361</b>	289	288
Zinc	ppm	ASTM D5185m 370	<b>370</b>	365	361
Sulfur	ppm	ASTM D5185m 2500	<b>890</b>	890	889

#### CONTAMINANTS

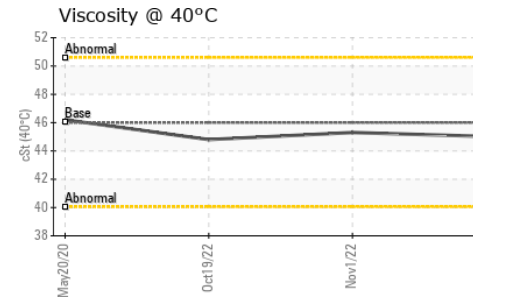
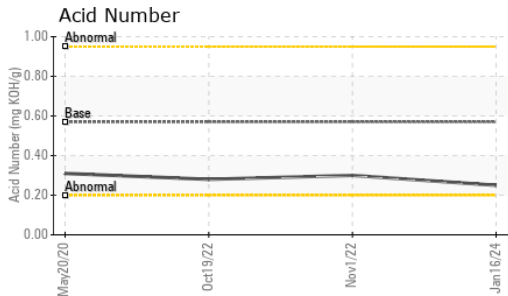
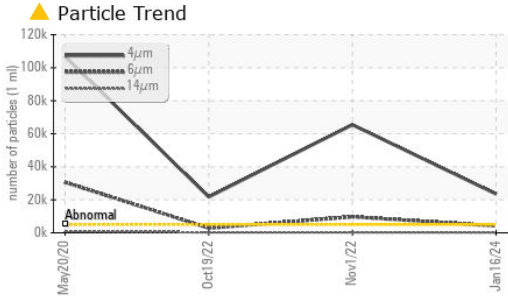
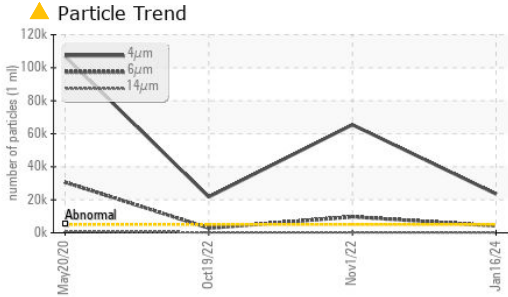
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0

#### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ <b>23506</b>	▲ 65466	▲ 21720
Particles >6µm	ASTM D7647	>1300	▲ <b>4150</b>	▲ 9680	▲ 2839
Particles >14µm	ASTM D7647	>160	<b>151</b>	▲ 233	▲ 212
Particles >21µm	ASTM D7647	>40	<b>23</b>	19	40
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	3
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>22/19/14</b>	▲ 23/20/15	▲ 22/19/15



# OIL ANALYSIS REPORT

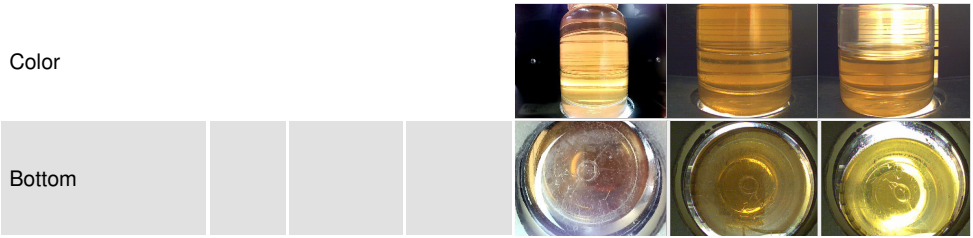


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.25</b>	0.30	0.28

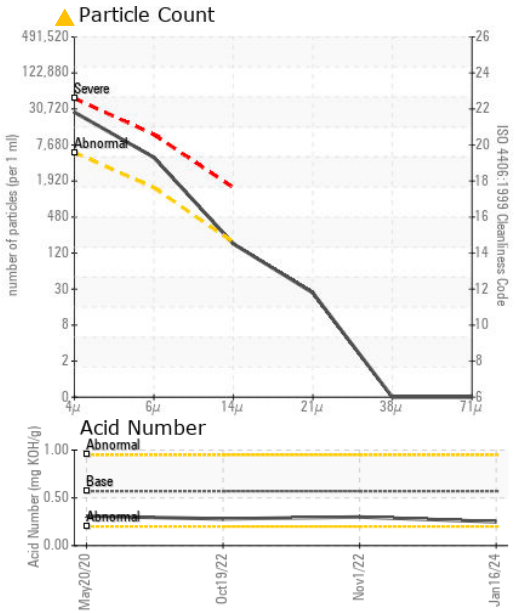
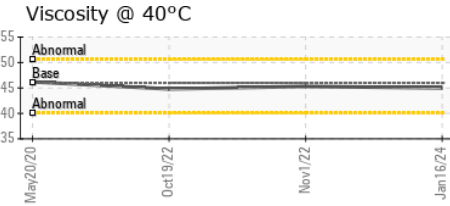
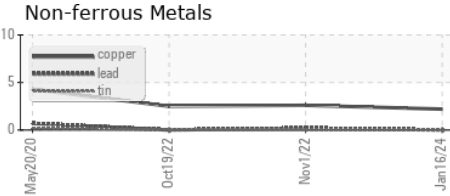
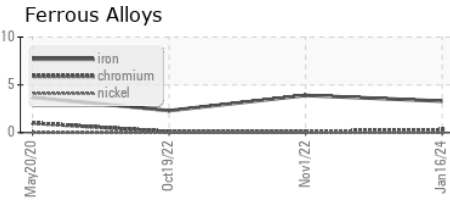
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>45.0</b>	45.3	44.8

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0701759 **Received** : 17 Jan 2024  
**Lab Number** : 06063544 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834926 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**CLINE HOSE & HYDRAULICS, LLC**  
 155 VERDIN RD  
 GREENVILLE, SC  
 US 29607  
 Contact: SCOTT CLINE  
 scline@clinehose.com  
 T: (877)233-7104  
 F: (864)233-7483

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)