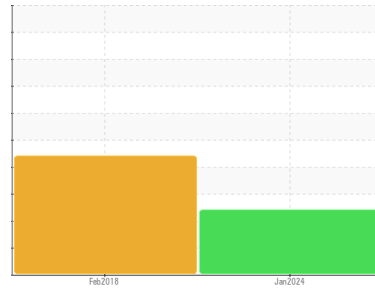




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**IMM122**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DTE 10 EXCEL 46 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done.

### ▲ Wear

Copper and iron ppm levels are abnormal. Cylinder or oil pump wear indicated.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0887707</b>	WCI2287361	---
Sample Date	Client Info		<b>12 Jan 2024</b>	01 Feb 2018	---
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	>0.05	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>▲ 41</b>	▲ 21	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---
Copper	ppm	ASTM D5185m >20	<b>▲ 166</b>	▲ 22	---
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185m	<b>---</b>	0	---
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>8</b>	5	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>1</b>	0	---
Calcium	ppm	ASTM D5185m	<b>103</b>	102	---
Phosphorus	ppm	ASTM D5185m	<b>510</b>	456	---
Zinc	ppm	ASTM D5185m	<b>703</b>	657	---
Sulfur	ppm	ASTM D5185m	<b>5574</b>	5686	---

## CONTAMINANTS

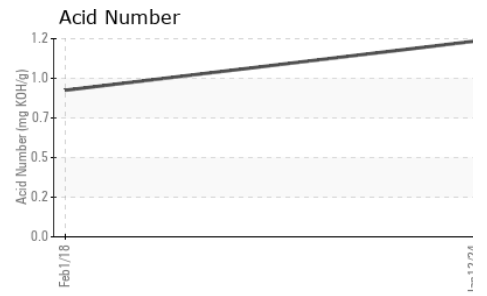
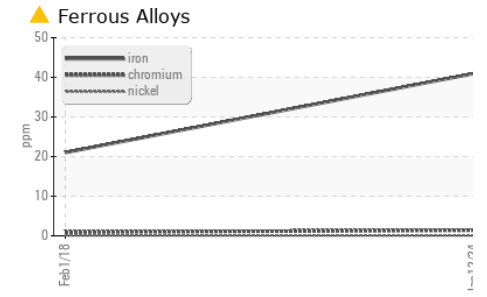
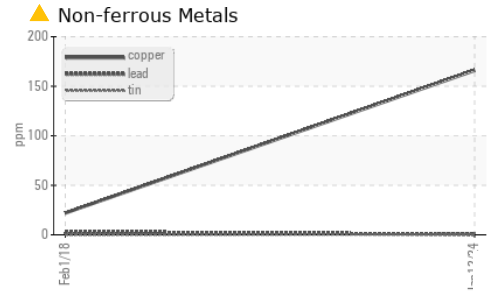
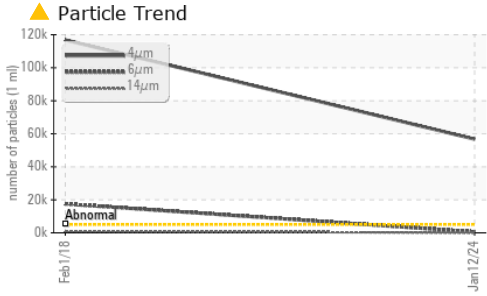
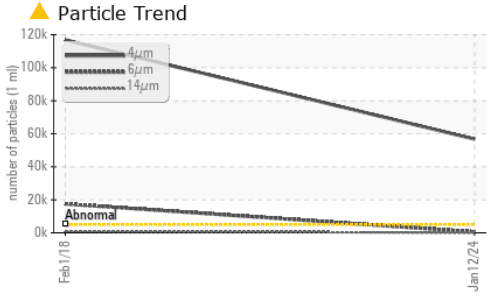
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>2</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 56740</b>	▲ 116814	---
Particles >6µm	ASTM D7647	>1300	<b>569</b>	▲ 17511	---
Particles >14µm	ASTM D7647	>160	<b>12</b>	▲ 983	---
Particles >21µm	ASTM D7647	>40	<b>2</b>	▲ 282	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	▲ 36	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	▲ 5	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/16/11</b>	▲ 24/21/17	---



# OIL ANALYSIS REPORT

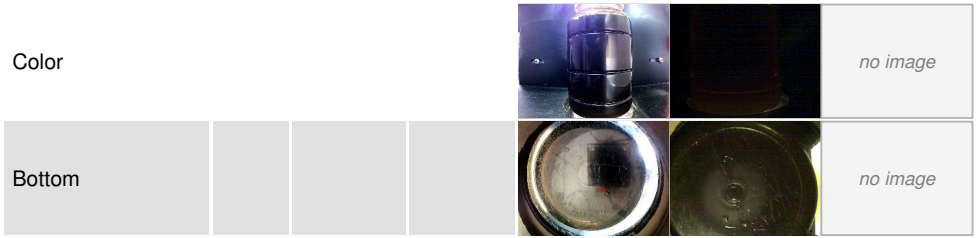


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.185</b>	0.888	---

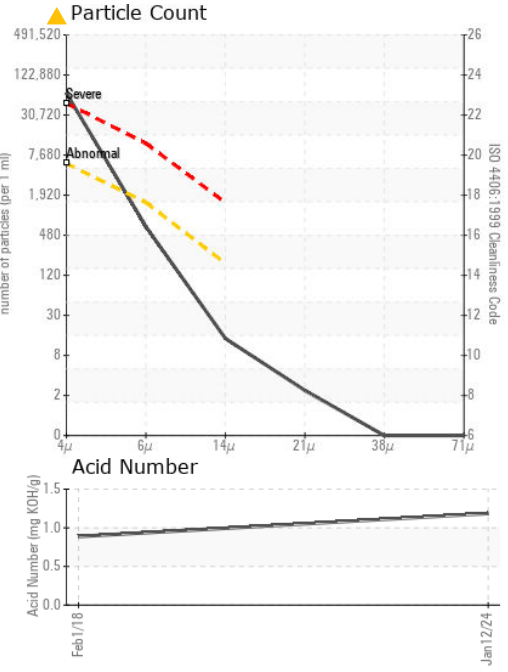
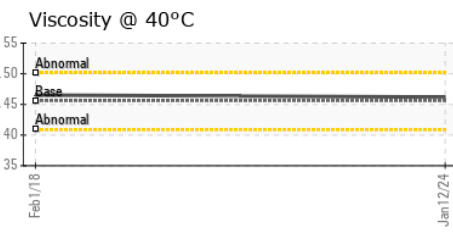
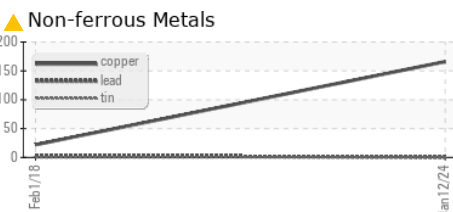
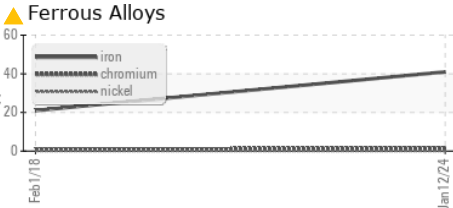
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>46.2</b>	46.53	---

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0887707  
**Lab Number** : **06210722**  
**Unique Number** : 11083586  
**Test Package** : IND 2  
**Received** : 14 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 18 Jun 2024 - Angela Borella

**Sumitomo Electric Wiring Systems**  
 2687 Old Gallatin Road, Plant 5  
 Scottsville, KY  
 US 42164  
 Contact: BILLY CARDER  
 bcarder@sewsus.com  
 T: (270)237-5419  
 F: (270)237-9476

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)