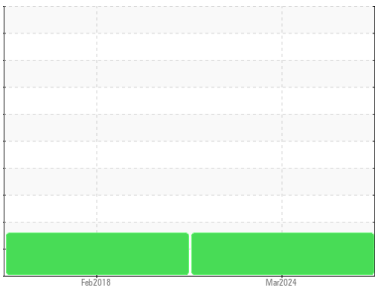
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
IMM120
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
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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		**WC0887703**	WCI2287394	---
Sample Date		Client Info		**01 Mar 2024**	01 Feb 2018	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **39**	19	---
Chromium	ppm	ASTM D5185m	>20	**3**	1	---
Nickel	ppm	ASTM D5185m	>20	**<1**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**2**	<1	---
Lead	ppm	ASTM D5185m	>20	**<1**	0	---
Copper	ppm	ASTM D5185m	>20	▲ **83**	15	---
Tin	ppm	ASTM D5185m	>20	**<1**	1	---
Antimony	ppm	ASTM D5185m		**---**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

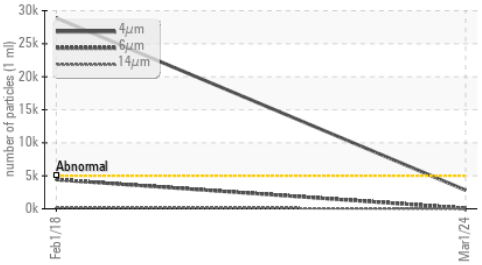
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	---
Barium	ppm	ASTM D5185m		**6**	3	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**2**	0	---
Calcium	ppm	ASTM D5185m		**131**	104	---
Phosphorus	ppm	ASTM D5185m		**495**	442	---
Zinc	ppm	ASTM D5185m		**707**	646	---
Sulfur	ppm	ASTM D5185m		**5285**	5187	---

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

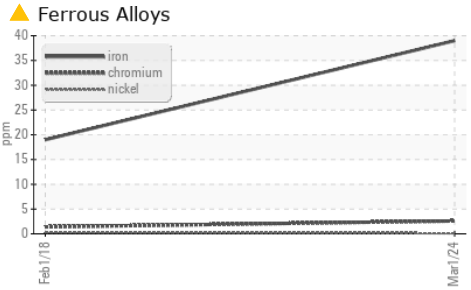
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**2820**	▲ 28908	---
Particles >6µm		ASTM D7647	>1300	**85**	▲ 4417	---
Particles >14µm		ASTM D7647	>160	**3**	● 215	---
Particles >21µm		ASTM D7647	>40	**1**	● 50	---
Particles >38µm		ASTM D7647	>10	**0**	3	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**19/14/9**	▲ 22/19/15	---

OIL ANALYSIS REPORT

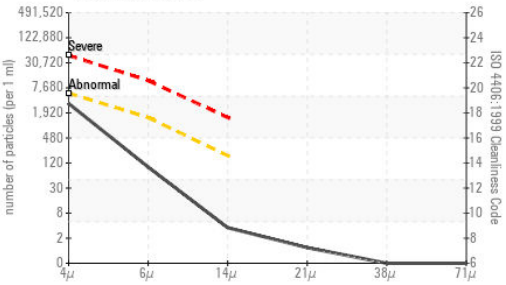
Particle Trend



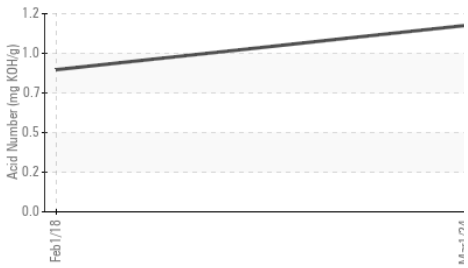
Ferrous Alloys



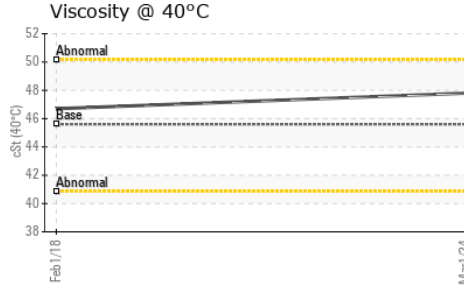
Particle Count



Acid Number



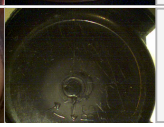
Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.129**	0.861	---

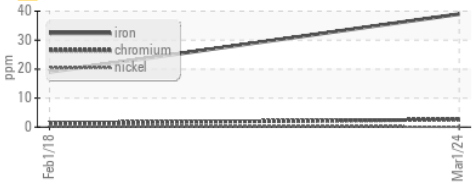
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	VLITE	---
Sand/Dirt	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	45.6	**47.8**	46.7	---

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

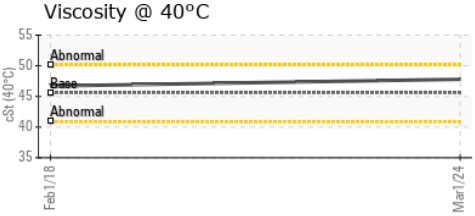
GRAPHS

Ferrous Alloys

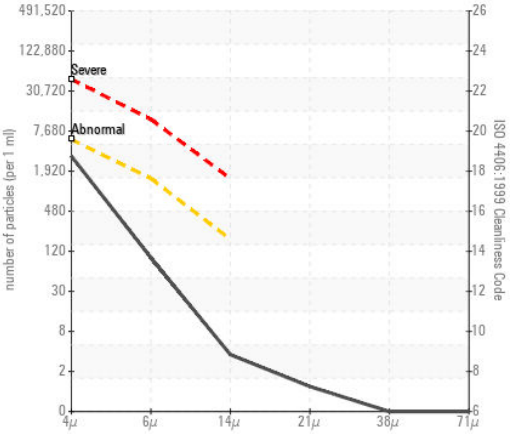


Non-ferrous Metals

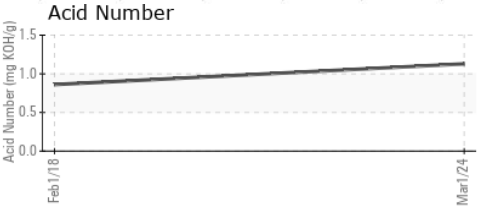
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887703
Lab Number : 06210719
Unique Number : 11083583
Test Package : IND 2

Received : 14 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Angela Borella

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)

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

Report Id: SUMSCO [WUSCAR] 06210719 (Generated: 06/22/2024 04:24:20) Rev: 1

Contact/Location: BILLY CARDER - SUMSCO