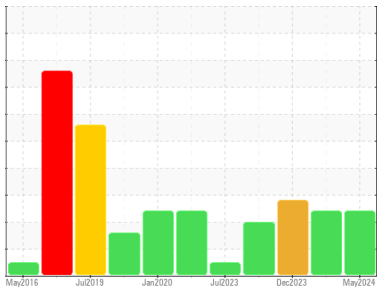
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
CM31 [1985132]
Machine Id
CM31EX01-1030 (S/N 2717647)
Component
Hydraulic System
Fluid
MOBIL DTE 25 (--- QTS)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. There is a light concentration of water present 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		**WC0935408**	WC0913988	WC0882122
Sample Date		Client Info		**28 May 2024**	05 Mar 2024	18 Dec 2023
Machine Age	days	Client Info		**60**	60	0
Oil Age	days	Client Info		**60**	60	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	<1	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	1	0
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**62**	52	46
Phosphorus	ppm	ASTM D5185m		**269**	238	259
Zinc	ppm	ASTM D5185m		**287**	231	282
Sulfur	ppm	ASTM D5185m		**1042**	657	632

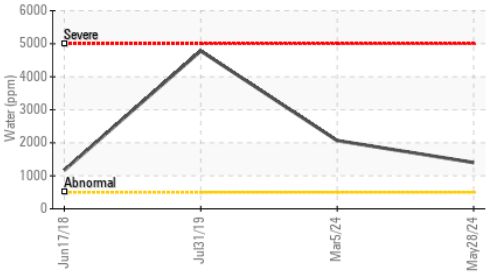
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**5**	5	<1
Sodium	ppm	ASTM D5185m		**3**	5	<1
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>0.05	▲ **0.140**	▲ 0.206	---
ppm Water	ppm	ASTM D6304	>500	▲ **1400**	▲ 2066	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**592**	---	▲ 138406
Particles >6µm		ASTM D7647	>1300	**322**	---	▲ 60086
Particles >14µm		ASTM D7647	>160	**55**	---	▲ 6095
Particles >21µm		ASTM D7647	>40	**18**	---	▲ 1694
Particles >38µm		ASTM D7647	>10	**3**	---	▲ 118
Particles >71µm		ASTM D7647	>3	**0**	---	▲ 14
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**16/16/13**	---	▲ 24/23/20

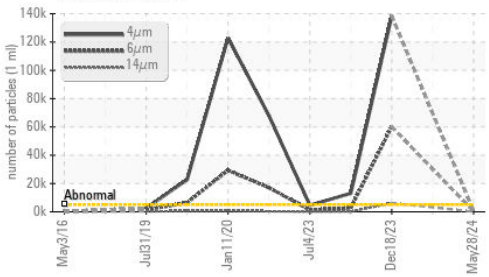
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.53**	0.47	0.461

OIL ANALYSIS REPORT

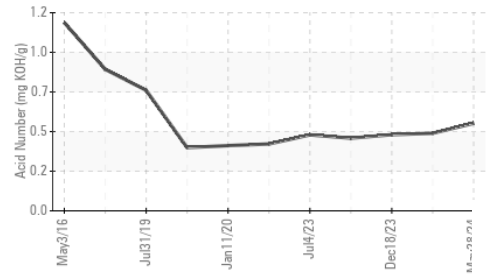
Water (KF)



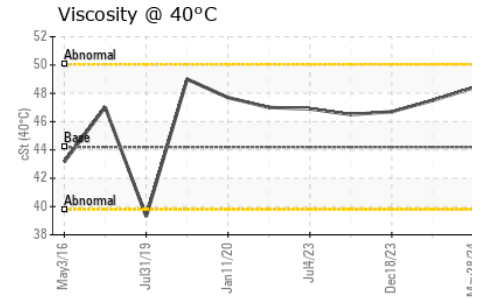
Particle Trend



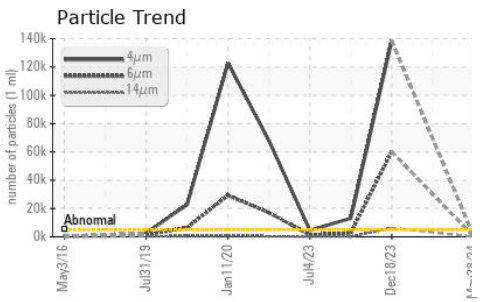
Acid Number



Viscosity @ 40°C



Particle Trend



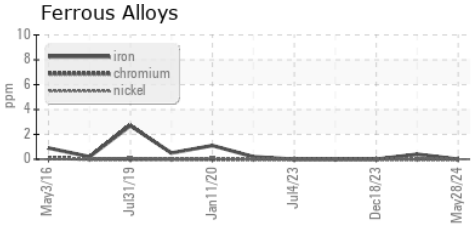
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	● **HAZY**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.2	**48.4**	47.5	46.7

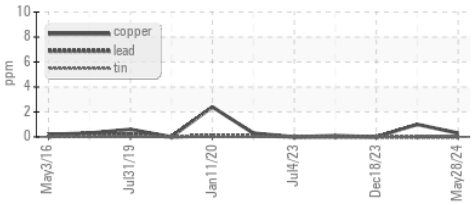
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

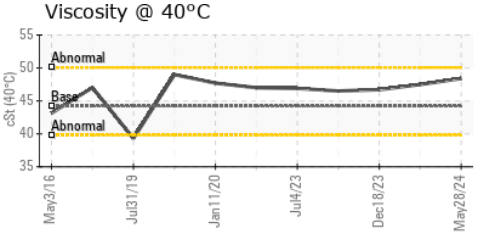
Ferrous Alloys



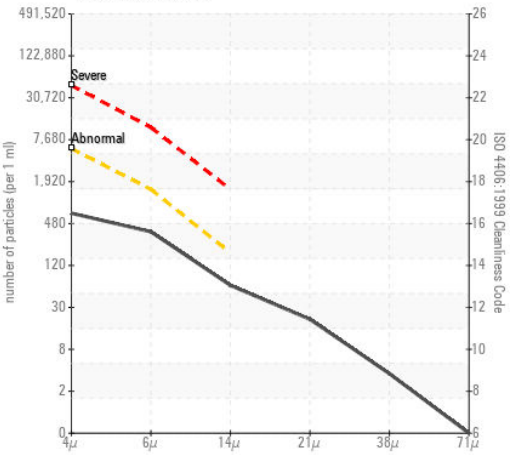
Non-ferrous Metals



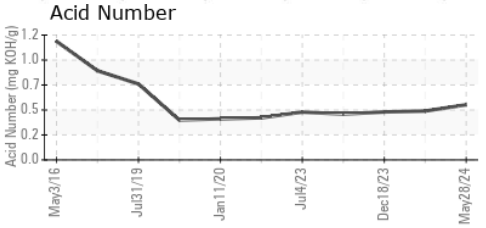
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935408 **Received** : 31 May 2024
Lab Number : 06196635 **Tested** : 05 Jun 2024
Unique Number : 11058758 **Diagnosed** : 05 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

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)

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Report Id: LEPALL [WUSCAR] 06196635 (Generated: 06/05/2024 09:05:10) Rev: 1

Submitted By: DANIEL WARNOCK