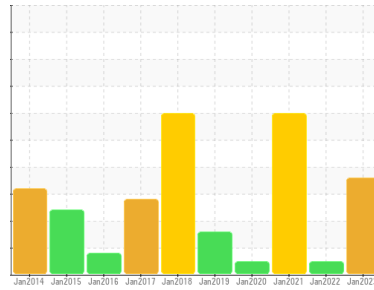




PROBLEM SUMMARY

Sample Rating Trend



WEAR



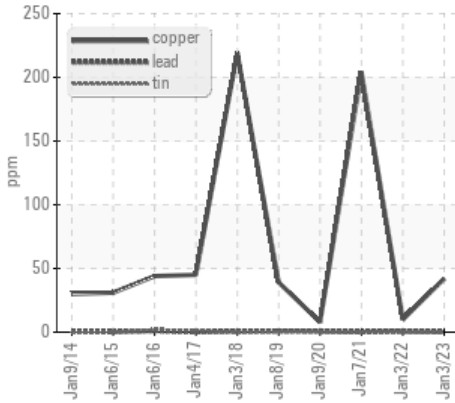
Machine Id
FT4566

Component
Hydraulic System

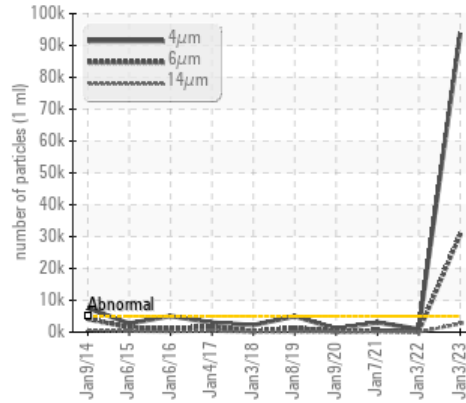
Fluid
MOBIL VACUOLINE OIL 1405 (6 GAL)

COMPONENT CONDITION SUMMARY

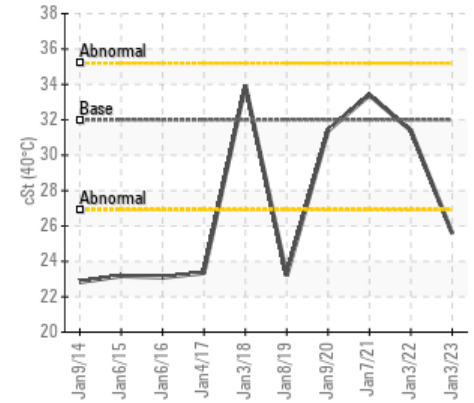
▲ Non-ferrous Metals



▲ Particle Trend



▲ Viscosity @ 40°C



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	SEVERE
Copper	ppm	ASTM D5185m >20	▲ 42	10	◆ 204
Particles >4µm		ASTM D7647 >5000	▲ 93839	920	3032
Particles >6µm		ASTM D7647 >1300	▲ 30626	234	513
Particles >14µm		ASTM D7647 >160	▲ 2670	24	37
Particles >21µm		ASTM D7647 >40	▲ 841	4	11
Particles >38µm		ASTM D7647 >10	▲ 41	0	0
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 24/22/19	17/15/12	19/16/12
Visc @ 40°C	cSt	ASTM D445 32	▲ 25.59	31.4	33.4

Customer Id: THESYL
Sample No.: WC0767611
Lab Number: 05730996
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	DONE	Jan 18 2023	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

03 Jan 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



07 Jan 2021 Diag: Jonathan Hester

WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. A sharp increase in the copper level is noted. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



09 Jan 2020 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

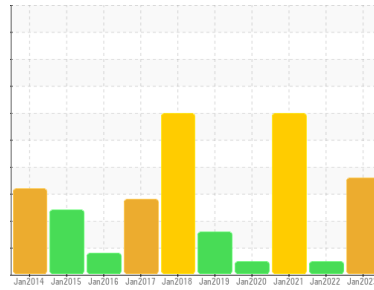
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
FT4566

Component
Hydraulic System

Fluid
MOBIL VACUOLINE OIL 1405 (6 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0767611	WC0651813	WC0534728
Sample Date	Client Info		03 Jan 2023	03 Jan 2022	07 Jan 2021
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	8	4	3
Chromium	ppm	ASTM D5185m	>20	0	<1	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	1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	▲ 42	10	● 204
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m		---	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		114	79	121
Phosphorus	ppm	ASTM D5185m		511	342	433
Zinc	ppm	ASTM D5185m		615	492	625
Sulfur	ppm	ASTM D5185m		2203	4880	4277

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	2	1	1
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1

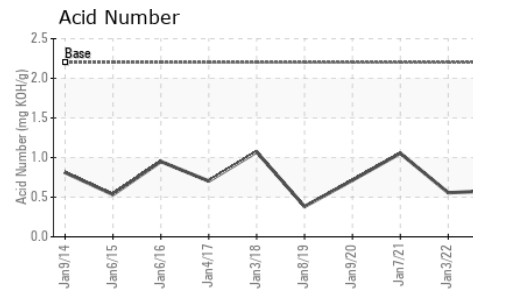
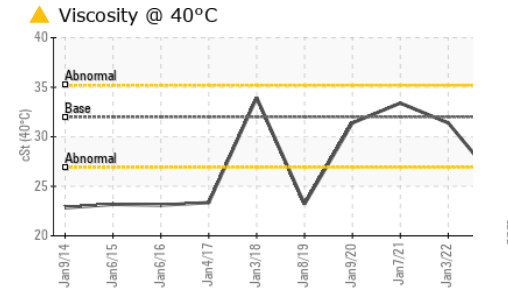
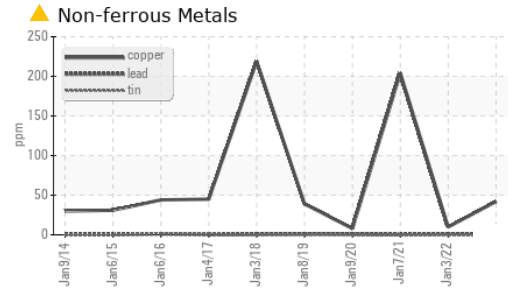
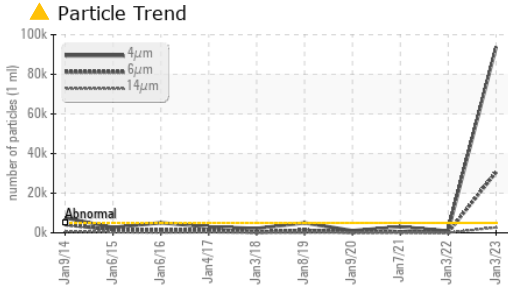
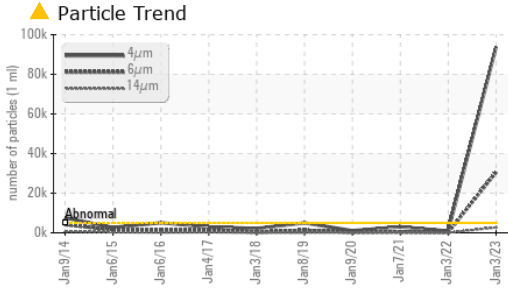
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 93839	920	3032
Particles >6µm	ASTM D7647	>1300	▲ 30626	234	513
Particles >14µm	ASTM D7647	>160	▲ 2670	24	37
Particles >21µm	ASTM D7647	>40	▲ 841	4	11
Particles >38µm	ASTM D7647	>10	▲ 41	0	0
Particles >71µm	ASTM D7647	>3	2	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/22/19	17/15/12	19/16/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.2	0.583	0.556	1.054

OIL ANALYSIS REPORT

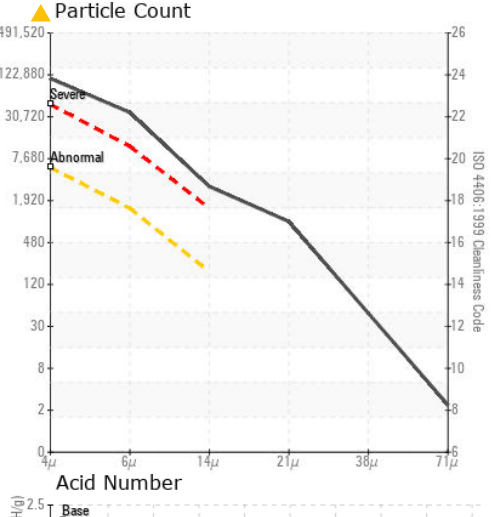
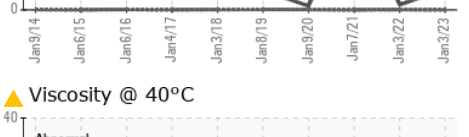
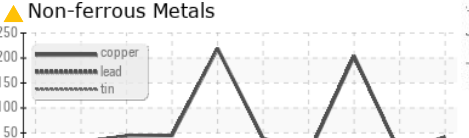
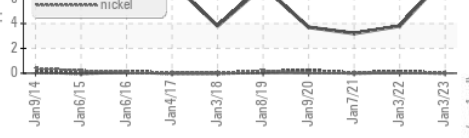


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	▲ 25.59	31.4	33.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0767611 **Received** : 05 Jan 2023
Lab Number : 05730996 **Diagnosed** : 09 Jan 2023
Unique Number : 10280594 **Diagnostician** : Doug Bogart
Test Package : PLANT

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 Contact: RUSSELL ZIPPERER
 russell.zipperer@jtekt.com
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 F: (912)564-7244

Certificate L2367
 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)