

PROBLEM SUMMARY

0050 Surface Grinder

Component Hydraulic System Fluid MOBIL VACUOLINE OIL 1405 (25 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Iron	ppm	ASTM D5185m	>20	• 172	9318	9 4		

Customer Id: THESYL Sample No.: WC0867570 Lab Number: 06057339 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS





We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid.



view report

03 Jan 2022 Diag: Jonathan Hester



We advise that you check for the source of water entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Appearance is hazy. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

07 Jan 2021 Diag: Jonathan Hester





We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.







OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id 0050 Surface Grinder Component

Hydraulic System MOBIL VACUOLINE OIL 1405 (25 GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛡 Wear

The iron level has decreased, but is still severe.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0867570	WC0767613	WC0651808
Sample Date		Client Info		05 Jan 2024	03 Jan 2023	03 Jan 2022
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				SEVERE	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	• 172	9318	9 4
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	<1	<1	1
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		146	182	50
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		<1	1	1
Calcium	ppm	ASTM D5185m		2	4	16
Phosphorus	ppm	ASTM D5185m		527	481	285
Zinc	ppm	ASTM D5185m		0	5	31
Sulfur	ppm	ASTM D5185m		2681	3354	2954
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	2
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	18	50	82
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	417	<u> </u>	A 99753
Particles >6µm		ASTM D7647	>1300	606	1 2169	17719
Particles >14µm		ASTM D7647	>160	22	20	657
Particles >21µm		ASTM D7647	>40	5	6	▲ 58

ASTM D7647 >10

ASTM D7647 >3

0

0

ISO 4406 (c) >19/17/14 **20/16/12**

Particles >38µm

Particles >71µm

Oil Cleanliness

1

▲ 22/18/11

0

2

0

▲ 24/21/17



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Jan2/07

an4/11

1.79

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

30.00

1.411

NONE

NONE

NONE

NONE

VLITE

NONE

NORML

A HAZY

▲ 0.2%

NEG

30.3

-20

18

14

12 0

an5/24

an7//21

SYLVANIA, GA

T: (912)564-7151

F: (912)564-7244

US 30467

Dec18/17

400 FRIENDSHIP RD

KOYO BEARINGS USA LLC S

Contact: RUSSELL ZIPPERER

russell.zipperer@jtekt.com

Jan 15/15