

## **PROBLEM SUMMARY**



### Machine Id **1653** Component Hydraulic System Fluid MOBIL VACUOLINE OIL 1405 (22 GAL)

### COMPONENT CONDITION SUMMARY





### RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Iron	ppm	ASTM D5185m	>20	• 326	• 385	• 399		
Particles >4µm		ASTM D7647	>5000	<b>A</b> 37750	<b>4</b> 24899	<b>A</b> 27267		
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>4</b> 319	▲ 4672		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/20/12	🔺 22/19/14	<u>22/19/15</u>		

Customer Id: THESYL Sample No.: WC0865386 Lab Number: 06075690 Test Package: IND 2



To manage this report scan the QR code

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

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

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Filter			?	We recommend you service the filters on this component if applicable.
Resample			?	We recommend an early resample to monitor this condition.

### HISTORICAL DIAGNOSIS



### 18 Jan 2023 Diag: Don Baldridge

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. The condition of the oil is suitable for further service.



# WEAR

### 17 Jan 2022 Diag: Don Baldridge

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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 01 Apr 2020 Diag: Jonathan Hester



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 moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid.





### **OIL ANALYSIS REPORT**

#### Sample Rating Trend

WEAR

### Machine Id 1653 Component **Hydraulic System** MOBIL VACUOLINE OIL 1405 (22 GAL)

### DIAGNOSIS

### Recommendation

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.

### 🛑 Wear

The iron level is severe.

### Contamination

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

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		eb2003 Ja	n2006 Jan2009 Ja	in2012 Jan2016 Mar2019	Jan2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865386	WC0767617	WC0651812
Sample Date		Client Info		16 Jan 2024	18 Jan 2023	17 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
CONTAMINATION	٨	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	9326	• 385	• 399
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	1
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	4	4	3
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		3	4	4
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		41	46	57
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		0	1	2
Calcium	ppm	ASTM D5185m		1	8	4
Phosphorus	ppm	ASTM D5185m		295	304	341
Zinc	ppm	ASTM D5185m		23	32	33
Sulfur	ppm	ASTM D5185m		2554	2968	2806
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	28	39	33
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 37750	<b>4</b> 24899	<b>A</b> 27267
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>4</b> 319	<b>4672</b>
Particles >14µm		ASTM D7647	>160	33	85	<b>1</b> 80
Particles >21µm		ASTM D7647	>40	2	6	34
Particles >38µm		ASTM D7647	>10	0	0	2

ASTM D7647 >3

0

ISO 4406 (c) >19/17/14 **22/20/12** 

Particles >71µm

**Oil Cleanliness** 

0

▲ 22/19/14

0

▲ 22/19/15

## **OIL ANALYSIS REPORT**



FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.2	1.07	1.15	1.176
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	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	29.1	29.1	29.2
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



