

No relevant graphs to display

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Debris	scalar	*Visual	NONE	🔺 HEAVY	VLITE	A MODER	

Customer Id: THESYL Sample No.: WCI2282238 Lab Number: 03806631 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Change Filter	MISSED	Sep 12 2016	?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### HISTORICAL DIAGNOSIS



### 19 Aug 2014 Diag: Jonathan Hester

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 19 Aug 2013 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level has decreased, but is still abnormal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 26 Aug 2010 Diag: Don Baldridge



We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level is abnormal. High concentration of visible dirt/debris present in the oil. The condition of oil is suitable for further service.



#### view report





Area [1003666]

0052

## **OIL ANALYSIS REPORT**

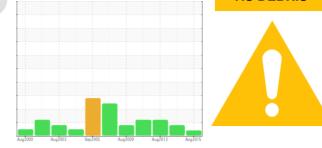
SAMPLE INFORMATION method

Sample Rating Trend

limit/base

**VIS DEBRIS** 

history2



current

history1

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

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

High concentration of visible dirt/debris present in the oil.

#### Fluid Condition

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

SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		WCI2282238	WCI2270810	WCI2239751
Sample Date		Client Info		17 Aug 2015	19 Aug 2014	19 Aug 2013
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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	26	▲ 96	▲ 58
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m	220	0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
Lead		ASTM D5185m	>20	2	5	4
Copper	ppm	ASTM D5185m	>20	4	8	5
Tin	ppm	ASTM D5185m	>20 >20	4	0	0
	ppm	ASTM D5185m	>20	0		0
Antimony	ppm			0	0	0
Vanadium	ppm	ASTM D5185m			0	
Cadmium	ppm	ASTM D5185m		2	5	3
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	<1
Barium	ppm	ASTM D5185m		203	122	84
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		1	4	3
Magnesium	ppm	ASTM D5185m		<1	4	4
Calcium	ppm	ASTM D5185m		14	39	25
Phosphorus	ppm	ASTM D5185m		604	502	296
Zinc	ppm	ASTM D5185m		20	64	42
Sulfur	ppm	ASTM D5185m		3801	4971	3221
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	4	2
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	5	11	0
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		1087	
Particles >6µm		ASTM D7647	>1300		592	
Particles >14µm		ASTM D7647	>160		100	
Particles >21µm		ASTM D7647	>40		34	
Particles >38µm		ASTM D7647	>10		5	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		17/16/14	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.2	2.38	2.53	2.48



# **OIL ANALYSIS REPORT**

method

scalar \*Visual

limit/base

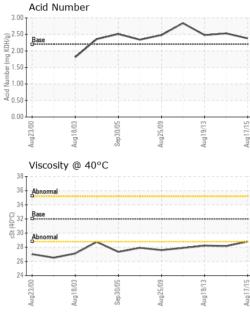
NONE

current

NONE

VISUAL

White Metal



		vvrile ivietal	scalar visu	iai NONE	NONE	NONE	NONE
		Yellow Metal	scalar *Visu	ial NONE	NONE	NONE	NONE
		Precipitate	scalar *Visu	ial NONE	NONE	NONE	NONE
		Silt	scalar *Visu	ial NONE	NONE	NONE	NONE
		Debris	scalar *Visu	ial NONE	A HEAVY	VLITE	A MODER
		Sand/Dirt	scalar *Visu	ial NONE	NONE	NONE	NONE
Aug25/09	Aug 19/13	Appearance Odor	scalar *Visu	ial NORMI	NORML	NORML	NORML
Aug	Aug	Odor	scalar *Visu	ial NORMI	NORML	NORML	NORML
		Emulsified Water	scalar *Visu	ial >0.05	NEG	NEG	NEG
		Free Water	scalar *Visu	ıal	NEG	NEG	NEG
		FLUID PROPERT	<b>FIES</b> met	thod limit/ba	ase current	history1	history2
		Visc @ 40°C	cSt ASTN	1 D445 32	28.8	28.17	28.24
			S mel	thod limit/ba	ase current	history1	history2
Aug25/09	Aug19/13	SI/JI Color			no image	no image	no image
		Bottom			no image	no image	no image
		Non-ferrous Metal		Aug19/13 Aug17/15 Aug17/15	Acid Numbe	r	
		Abusered			(B/HOX	$ \rightarrow $	$\sim -$
		G 35 - Abroma Base K 30 - Abnomal			(b)HCX Base 1.00 0.00 0.00 0.00		
		25 00/6 50/8	2/08	9/13	3/00 Aci	0/05	9/13
		Aug 23/00 Aug 18/03 Sep 30/05	Aug 25/09	Aug 19/13 Aug 17/15	Aug23/00 Aug18/03	Sep 30/05 Aug 25/09	Aug19/13
	Laboratory	: WearCheck USA - 5	501 Madison Av <b>Received</b>			KOYO BEARIN 400 F	
ertificate L2367	Sample No. Lab Number Unique Numb Test Packag sample repor	r : <mark>03806631</mark> I er : 7109663 I	Diagnosed Diagnostician ests: PQ )	: 20 Aug 2015 : 21 Aug 2015 : Jonathan He 7-1369.	5	Contact: RUSS	RIENDSHIP RI SYLVANIA, G, US 3046 ELL ZIPPEREI perer@jtekt.cor

Report Id: THESYL [WUSCAR] 03806631 (Generated: 08/31/2023 14:27:13) Rev: 1

Contact/Location: RUSSELL ZIPPERER - THESYL

history1

NONE

history2

NONE