

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

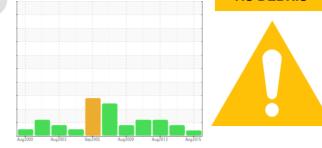
SAMPLE INFORMATION method

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

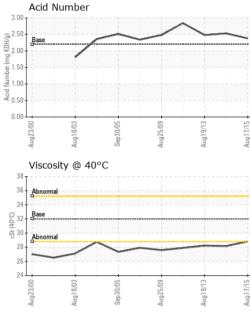
NONE

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 | FIES 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 Received | | | 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