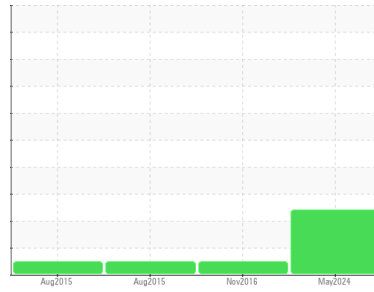


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
VOLVO A30G 740132
 Component
Transmission (Auto)
 Fluid
VOLVO AT 102 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample. Elemental level of silicon (Si) above normal.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | ML0001118 | VCP202421 | VCE239280 |
| Sample Date | Client Info | | 22 May 2024 | 08 Nov 2016 | 18 Aug 2015 |
| Machine Age | hrs | Client Info | 0 | 2126 | 17 |
| Oil Age | hrs | Client Info | 0 | 0 | 17 |
| Oil Changed | Client Info | | Not Chngd | N/A | Changed |
| Sample Status | | | ABNORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >160 | 24 | 61 | 19 |
| Chromium | ppm | ASTM D5185m >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >5 | 1 | 7 | <1 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >50 | 33 | 34 | 2 |
| Lead | ppm | ASTM D5185m >50 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m >225 | 5 | 39 | 4 |
| Tin | ppm | ASTM D5185m >10 | 2 | 9 | 1 |
| Antimony | ppm | ASTM D5185m | --- | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | <1 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 187 | 86 | 73 | 90 |
| Barium | ppm | ASTM D5185m 0.0 | 0 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m 0.0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m 0.0 | <1 | 5 | 4 |
| Magnesium | ppm | ASTM D5185m 6.8 | 0 | 3 | <1 |
| Calcium | ppm | ASTM D5185m 215 | 87 | 158 | 160 |
| Phosphorus | ppm | ASTM D5185m 445 | 201 | 251 | 244 |
| Zinc | ppm | ASTM D5185m 56 | 7 | 11 | 5 |
| Sulfur | ppm | ASTM D5185m 1336 | 2327 | 1383 | 1296 |

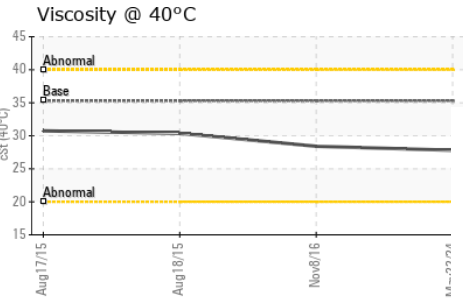
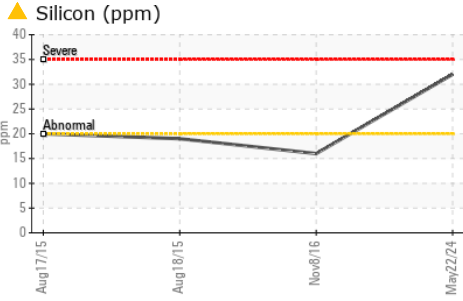
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|-------------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | ▲ 32 | 16 | 19 |
| Sodium | ppm | ASTM D5185m | 4 | 5 | 4 |
| Potassium | ppm | ASTM D5185m >20 | 4 | 3 | 3 |

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 | ▲ MODER | NONE | NONE |
| Debris | scalar | *Visual NONE | NONE | NONE | NONE |
| 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 >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

OIL ANALYSIS REPORT

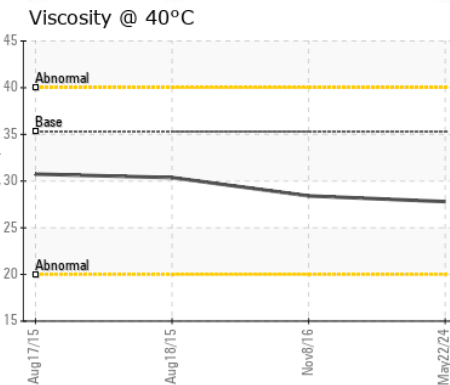
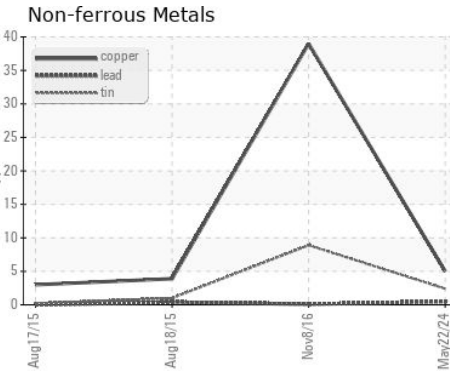
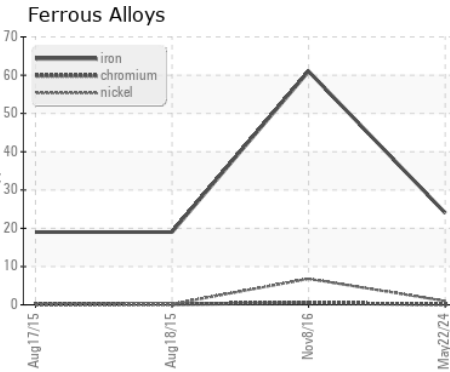


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|-------|
| Visc @ 40°C | cSt | ASTM D445 | 35.3 | 27.8 | 28.41 | 30.37 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

| | | | | | | |
|--------|--|--|--|----------|----------|----------|
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |

GRAPHS



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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001118
Lab Number : **06197166**
Unique Number : 11059289
Test Package : CONST

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 04 Jun 2024 - Don Baldrige

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