

PROBLEM SUMMARY

Sample Rating Trend

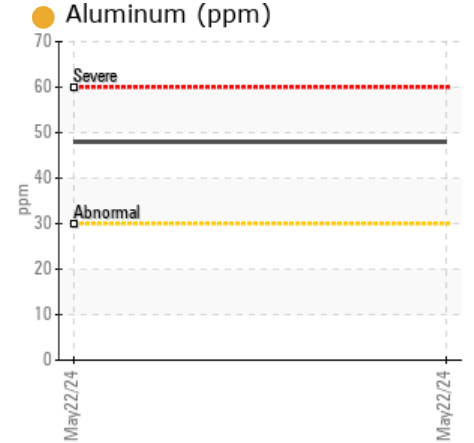
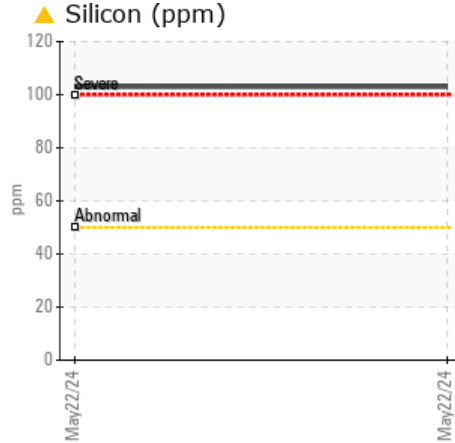
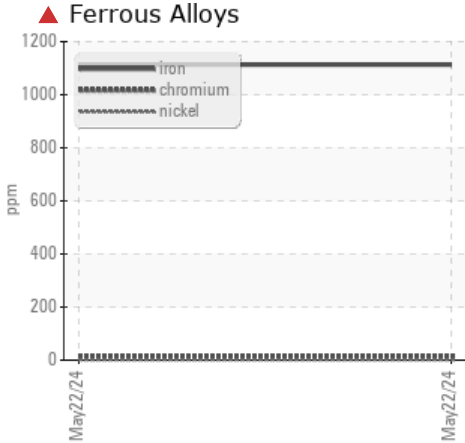


WEAR



Machine Id
VOLVO A30G 740132
 Component
Drop Box
 Fluid
 {not provided} (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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 | --- | --- |
|---------------|-----|-------------|------|--------|-----|-----|
| Iron | ppm | ASTM D5185m | >500 | ▲ 1113 | --- | --- |
| Silicon | ppm | ASTM D5185m | >50 | ▲ 103 | --- | --- |

Customer Id: VOLVO1023
 Sample No.: ML0001747
 Lab Number: 06197148
 Test Package: CONST



To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---------------------|--------|------|---------|---|
| Inspect Wear Source | --- | --- | ? | We advise that you inspect for the source(s) of wear. |
| Change Fluid | --- | --- | ? | We recommend that you drain the oil from the component if this has not already been done. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |
| Check Dirt Access | --- | --- | ? | We advise that you check all areas where dirt can enter the system. |

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
VOLVO A30G 740132
 Component
Drop Box
 Fluid
 {not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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. Gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | ML0001747 | --- | --- |
| Sample Date | Client Info | | 22 May 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-------------|---------|---------------|----------|
| Iron | ppm | ASTM D5185m | >500 | ▲ 1113 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 12 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 2 | --- |
| Titanium | ppm | ASTM D5185m | | 2 | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >30 | ● 48 | --- |
| Lead | ppm | ASTM D5185m | >30 | <1 | --- |
| Copper | ppm | ASTM D5185m | >30 | 4 | --- |
| Tin | ppm | ASTM D5185m | >20 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185m | | 157 | --- |
| Barium | ppm | ASTM D5185m | | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | | 3 | --- |
| Manganese | ppm | ASTM D5185m | | 12 | --- |
| Magnesium | ppm | ASTM D5185m | | 8 | --- |
| Calcium | ppm | ASTM D5185m | | 174 | --- |
| Phosphorus | ppm | ASTM D5185m | | 2417 | --- |
| Zinc | ppm | ASTM D5185m | | 245 | --- |
| Sulfur | ppm | ASTM D5185m | | 32274 | --- |

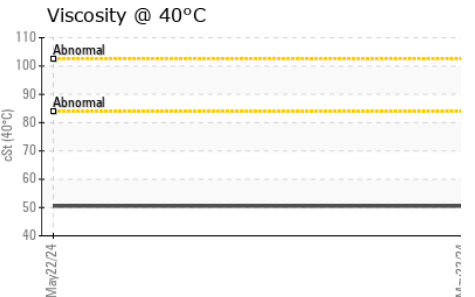
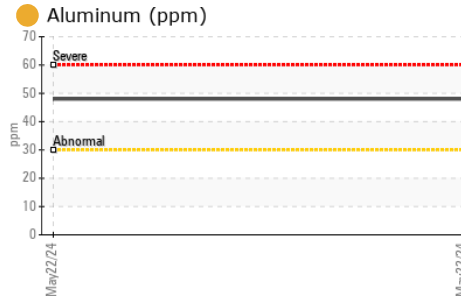
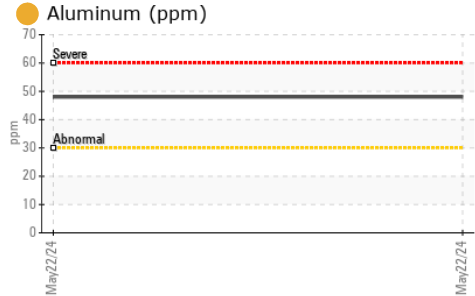
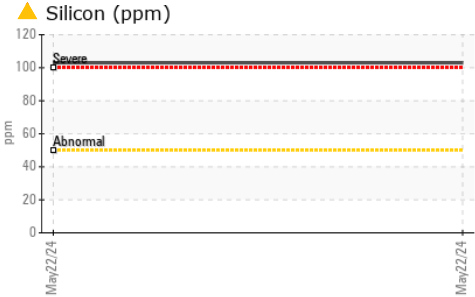
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185m | >50 | ▲ 103 | --- |
| Sodium | ppm | ASTM D5185m | | 8 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 19 | --- |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | LIGHT | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

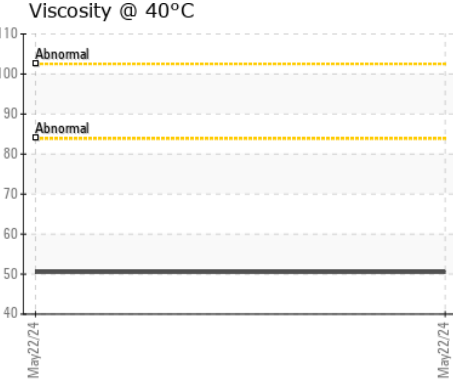
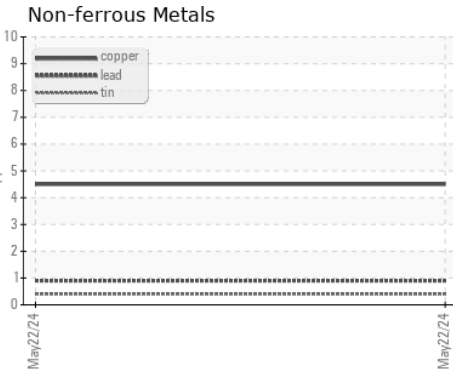
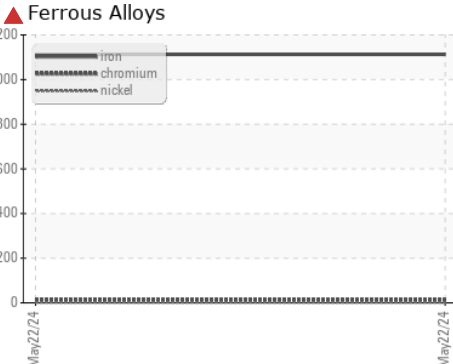
OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 50.5 | --- | --- |

| 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. : ML0001747
Lab Number : 06197148
Unique Number : 11059271
Test Package : CONST

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

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