



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |



Area
[WASTE MANAGEMENT]
Machine Id
VOLVO A30G 742522
Component
Front Axle
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | ML0001963 | ML0000357 | VCP416221 |
| Sample Date | | Client Info | | 26 Jun 2024 | 01 Mar 2024 | 17 May 2023 |
| Machine Age | hrs | Client Info | | 4027 | 0 | 3103 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changed | N/A | Not Changed |
| Filter Changed | | Client Info | | Not Changed | N/A | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >900 | 229 | 261 | 551 |
| Chromium | ppm | ASTM D5185m | >20 | 4 | 5 | 11 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 3 | 5 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >30 | <1 | 1 | <1 |
| Lead | ppm | ASTM D5185m | >50 | <1 | 2 | 0 |
| Copper | ppm | ASTM D5185m | >150 | 5 | 6 | 20 |
| Tin | ppm | ASTM D5185m | >20 | <1 | 0 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

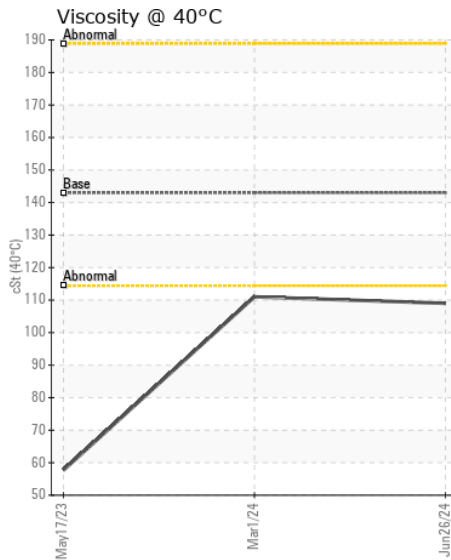
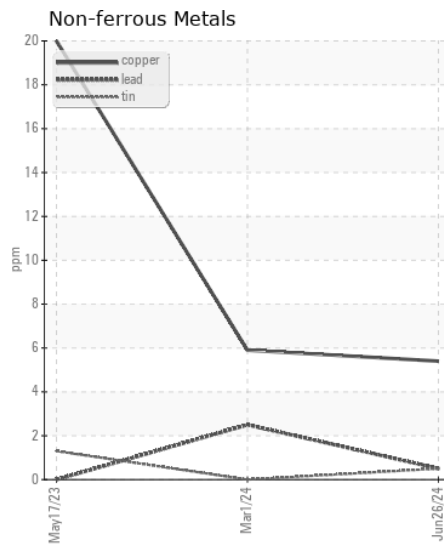
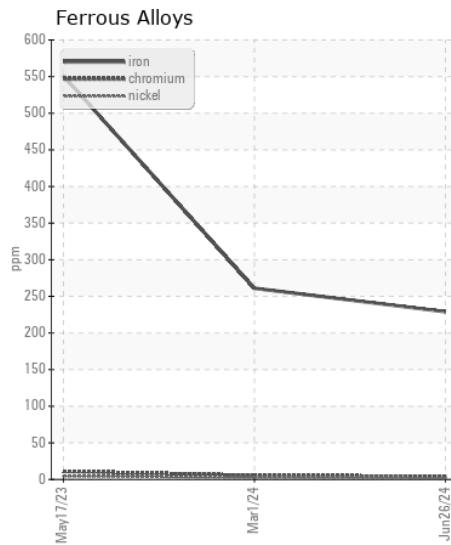
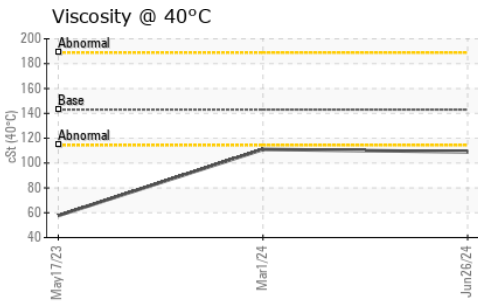
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 3 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 4 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | >170 | <1 | 2 | 5 |
| Boron | ppm | ASTM D5185m | 400 | 39 | 42 | 205 |
| Barium | ppm | ASTM D5185m | 200 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 4 | 6 | 16 |
| Manganese | ppm | ASTM D5185m | | 6 | 7 | 20 |
| Magnesium | ppm | ASTM D5185m | 12 | 0 | 2 | 2 |
| Calcium | ppm | ASTM D5185m | 150 | 75 | 92 | 118 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 554 | 615 | 1445 |
| Zinc | ppm | ASTM D5185m | 125 | 41 | 30 | 50 |
| Sulfur | ppm | ASTM D5185m | 22500 | 28305 | 24889 | 28609 |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 109 | 111 | 57.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001963
Lab Number : 06224125
Unique Number : 11102322
Test Package : CONST

Received : 28 Jun 2024
Tested : 01 Jul 2024
Diagnosed : 01 Jul 2024 - Angela Borella

MCCLUNG-LOGAN EQUIPMENT CO - WINCHESTER
 160 KENTMERE COURT
 WINCHESTER, VA
 US 22603

Contact: James Trumble
 jtrumble@mcclung-logan.com

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)

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