



Machine Id VOLVO A45G 342403

Component 2 Axle Fluid

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. ( Customer Sample Comment: Flushed axle out with new oil had a previous bad sample )

**WEAR** 

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

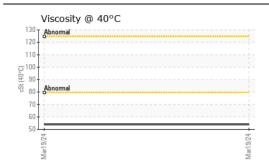
The condition of the oil is acceptable for the time in service.

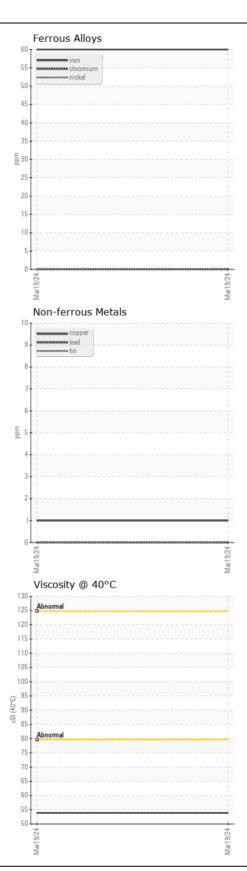
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| Test  | UOM   | Method   | Limit/Abn                                     | Current   | History1 | History2 |
|---|---|--|---|---|----------|----------|
| Sample Number   |   | Client Info  |   | ML0000808   |          |          |
| Sample Date   |   | Client Info  |   | 19 Mar 2024   |          |          |
| Machine Age   | hrs   | Client Info  |   | 8122  |          |          |
| Oil Age   | hrs   | Client Info  |   | 0   |          |          |
| Filter Age  | hrs   | Client Info  |   | 0   |          |          |
| Oil Changed   |   | Client Info  |   | Changed   |          |          |
| Filter Changed  |   | Client Info  |   | None  |          |          |
| Sample Status   |   |  | NORMAL  |   |          |          |
| Iron  | nnm   | ASTM D5185m  | >900  | 60  |          |          |
| Chromium  | ppm<br>ppm  | ASTM D5185m  | >20   | 0   |          |          |
| Nickel  |   | ASTM D5185m  | >10   | 0   |          |          |
| Titanium  | ppm<br>ppm  | ASTM D5185m  | >10   | 0   |          |          |
| Silver  | ppm   | ASTM D5185m  |   | 0   |          |          |
| Aluminum  |   | ASTM D5185m  | >30   | 0   |          |          |
| Lead  | ppm   | ASTM D5185m  | >50   | 0   |          |          |
| Copper  | ppm   | ASTM D5185m  | >150  | 1   |          |          |
| Tin   | ppm   | ASTM D5185m  | >20   | 0   |          |          |
| Vanadium  | ppm   | ASTM D5185m  | >20   | 0   |          |          |
| White Metal   | ppm<br>scalar   | *Visual  | NONE  | NONE  |          |          |
| Yellow Metal  | scalar  | *Visual  | NONE  | NONE  |          |          |
| renow wetai   | Scalai  | visuai   | NONL  | NONE  |          |          |
|   |   |  |   |   |          |          |
| Silicon   | ppm   | ASTM D5185m  | >50   | 3   |          |          |
| Silicon<br>Potassium  | ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m   | >50<br>>20                                    | 3<br>0  |          |          |
|   |   |  |   | -   |          |          |
| Potassium   |   | ASTM D5185m  | >20   | 0   |          |          |
| Potassium<br>Water  | ppm   | ASTM D5185m<br>WC Method   | >20<br>>0.2                                   | 0<br>NEG  |          |          |
| Potassium<br>Water<br>Silt  | ppm<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual  | >20<br>>0.2<br>NONE                           | 0<br>NEG<br>NONE  |          |          |
| Potassium<br>Water<br>Silt<br>Debris  | ppm<br>scalar<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual   | >20<br>>0.2<br>NONE<br>NONE                   | 0<br>NEG<br>NONE<br>NONE  | <br>     | <br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt   | ppm<br>scalar<br>scalar<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual  | >20<br>>0.2<br>NONE<br>NONE<br>NONE           | 0<br>NEG<br>NONE<br>NONE  | <br>     | <br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance   | ppm<br>scalar<br>scalar<br>scalar<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual   | >20<br>>0.2<br>NONE<br>NONE<br>NONE<br>NORML  | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML   | <br><br> | <br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual   | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORE<br>NORML<br>NORML<br>NEG   |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m  | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0  |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m  | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275   |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                                 | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m   | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0  |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                                    | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>0   |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm                             | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0   |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium                                  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                      | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0<br>0                                      |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium                        | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>59       |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium                       | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0<br>0<br>275<br>0<br>0<br>59<br>59<br>2528 |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0<br>0<br>59<br>2528<br>26                  |          |          |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium                       | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>275<br>0<br>275<br>0<br>0<br>0<br>275<br>0<br>0<br>59<br>59<br>2528 |          |          |

Report Id: VOLVO9010 [WUSCAR] 06124406 (Generated: 03/23/2024 13:36:53) Rev: 1

Submitted By: Austin Malkemus





Received

Diagnosed

Tested

MCCLUNG-LOGAN EQUIPMENT CO - SALEM : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 20 Mar 2024 2025 COOK DRIVE : 21 Mar 2024 SALEM, VA : 23 Mar 2024 - Don Baldridge US 24153 Contact: SCOTT CARR To discuss this sample report, contact Customer Service at 1-800-237-1369. scarr@mcclung-logan.com T: (540)418-5218 \* - 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) F:



Report Id: VOLVO9010 [WUSCAR] 06124406 (Generated: 03/23/2024 13:36:54) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number : 06124406

Unique Number : 10938557

Test Package : CONST

: ML0000808

Submitted By: Austin Malkemus

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