



VOLVO

OIL ANALYSIS REPORT

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



Machine Id
VOLVO A25G 752045
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP447758 | VCP387387 | VCP319318 |
| Sample Date | | Client Info | | 21 May 2024 | 15 Sep 2023 | 25 Aug 2021 |
| Machine Age | hrs | Client Info | | 4514 | 3862 | 1613 |
| Oil Age | hrs | Client Info | | 0 | 0 | 1000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >200 | 8 | 4 | 19 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | 1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 4 | 1 | 0 |
| Lead | ppm | ASTM D5185m | >40 | 1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 4 | 2 | ▲ 150 |
| Tin | ppm | ASTM D5185m | >20 | 1 | <1 | 2 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

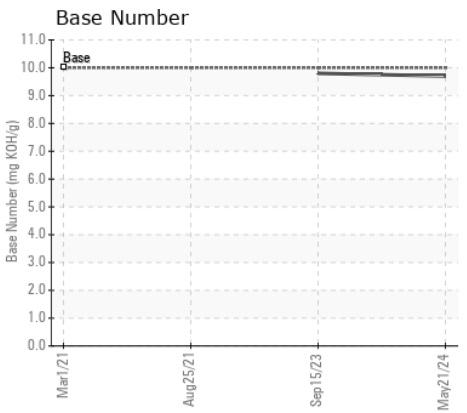
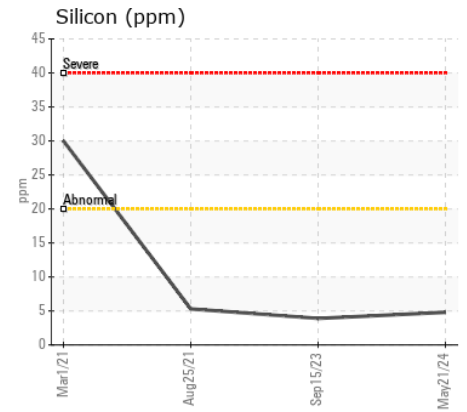
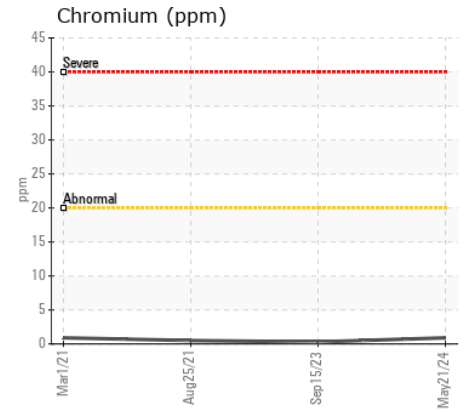
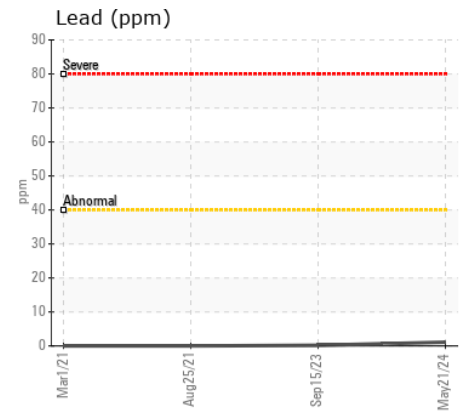
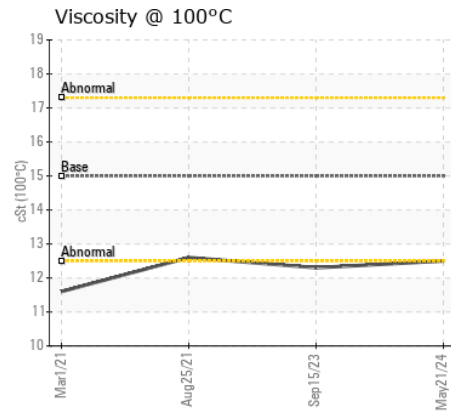
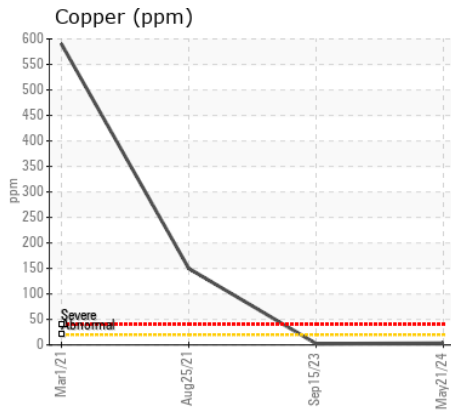
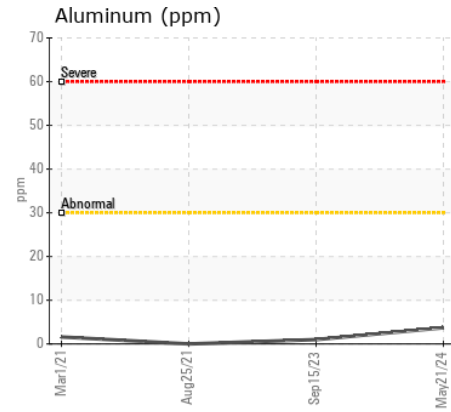
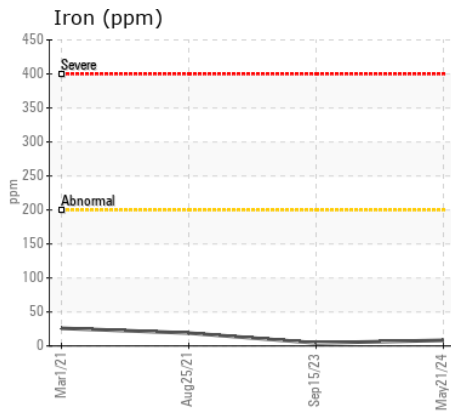
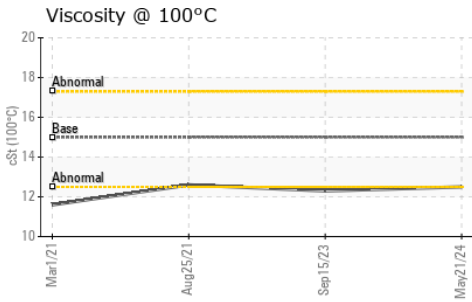
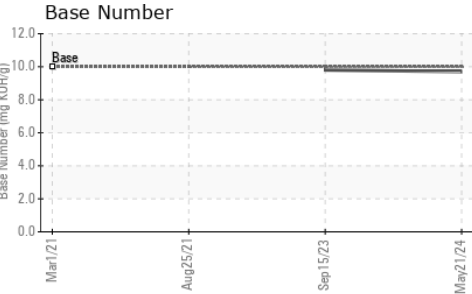
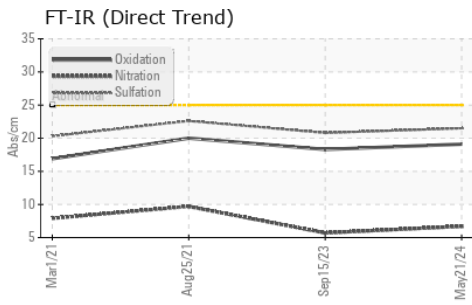
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >20 | 5 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | <1 | <1 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.7 | 5.7 | 9.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.5 | 20.8 | 22.6 |
| 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | 2 | 1 |
| Boron | ppm | ASTM D5185m | 2.5 | 55 | 57 | 13 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.7 | 52 | 46 | 44 |
| Manganese | ppm | ASTM D5185m | 0.0 | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 256 | 504 | 486 | 524 |
| Calcium | ppm | ASTM D5185m | 2057 | 1606 | 1542 | 1600 |
| Phosphorus | ppm | ASTM D5185m | 935 | 924 | 877 | 830 |
| Zinc | ppm | ASTM D5185m | 1223 | 1078 | 1029 | 1042 |
| Sulfur | ppm | ASTM D5185m | 4079 | 3330 | 2871 | 2129 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.1 | 18.3 | 20 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10 | 9.7 | 9.8 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.0 | 12.5 | 12.3 | 12.6 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP447758
Lab Number : 06193679
Unique Number : 11050431
Test Package : MOB 1 (Additional Tests: TBN)

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905

Contact: TODD LARK
 tlark@altaequipfl.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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