



ASCENDUM

OIL ANALYSIS REPORT

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



Machine Id
VOLVO L110H 632600

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 | | ASC0006911 | --- | --- |
| Sample Date | | Client Info | | 07 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 2326 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >100 | 22 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >2 | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 7 | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m | >15 | 26 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

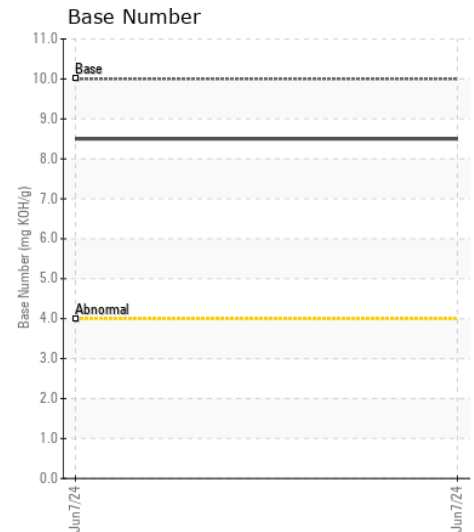
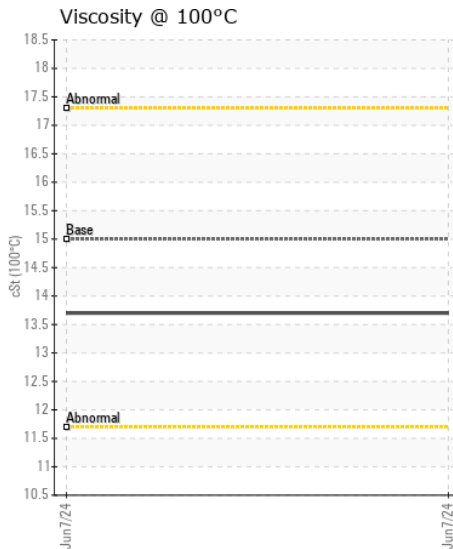
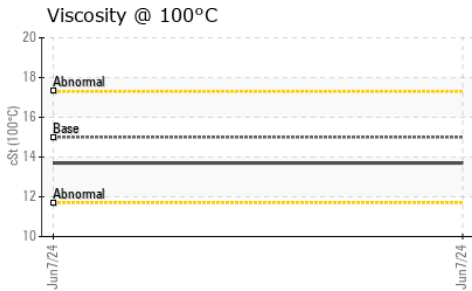
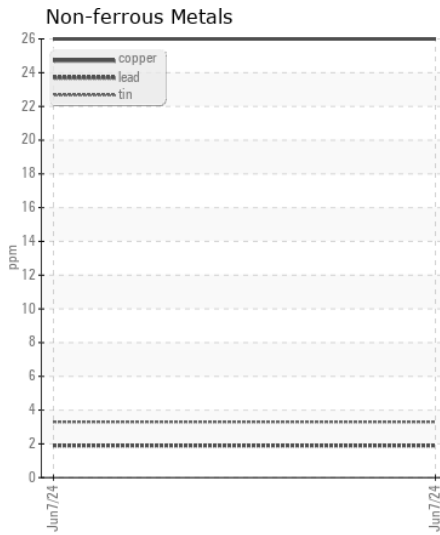
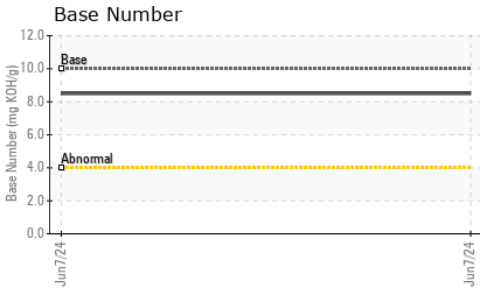
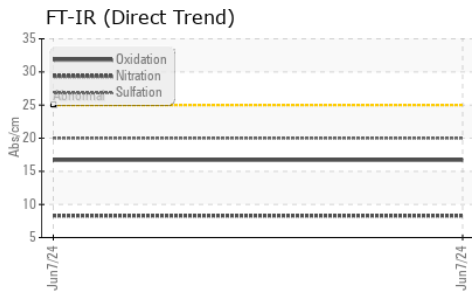
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >20 | 7 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | --- | --- |
| Fuel | | WC Method | >6.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.3 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.0 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 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 | --- | --- |
| Boron | ppm | ASTM D5185m | 2.5 | 10 | --- | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0.7 | 59 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | 1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 256 | 967 | --- | --- |
| Calcium | ppm | ASTM D5185m | 2057 | 1397 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 935 | 1123 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1223 | 1412 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 4079 | 3768 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.7 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10 | 8.5 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.0 | 13.7 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0006911

Lab Number : 06222963

Unique Number : 11101160

Test Package : CONST (Additional Tests: TBN)

Received : 27 Jun 2024

Tested : 28 Jun 2024

Diagnosed : 30 Jun 2024 - Don Baldrige

364 - ASCENDUM MACHINERY INC - MACON

4807 HARRISON RD

MACON, GA

US 31206

Contact: HALIE BAKER

halie.baker@ascendummachinery.com

T:

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)

F: (478)200-5859