



ASCENDUM

OIL ANALYSIS REPORT

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



Machine Id
VOLVO A45G 13409 (S/N 353519)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number | | Client Info | | ASC0008507 | VCP421671 | --- |
| Sample Date | | Client Info | | 24 Feb 2024 | 11 Dec 2023 | --- |
| Machine Age | hrs | Client Info | | 1995 | 771 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 15 | 29 | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >2 | 1 | 2 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | 3 | --- |
| Lead | ppm | ASTM D5185m | >40 | 1 | 3 | --- |
| Copper | ppm | ASTM D5185m | >330 | 15 | 172 | --- |
| Tin | ppm | ASTM D5185m | >15 | 1 | 5 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

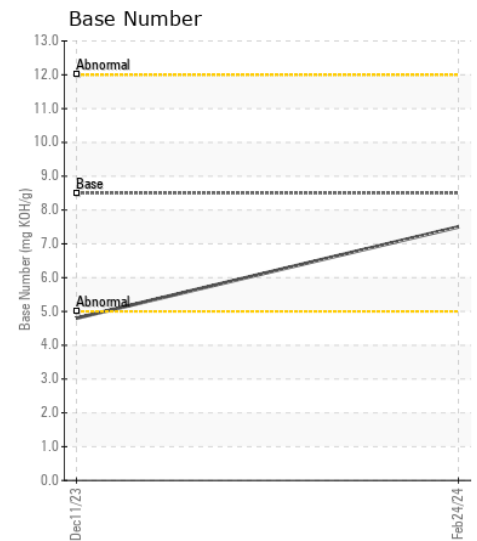
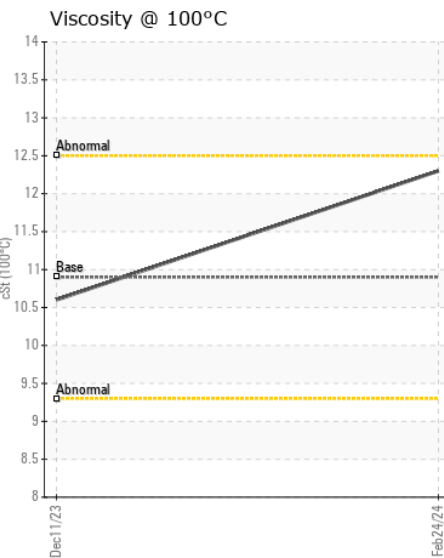
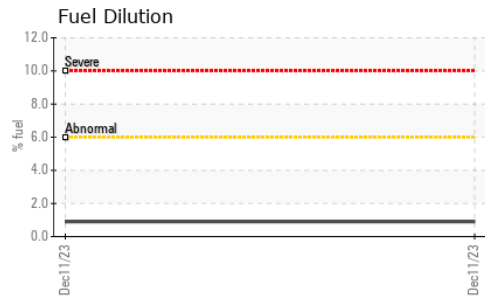
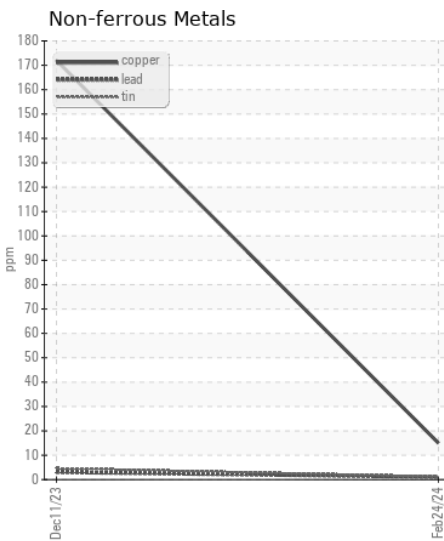
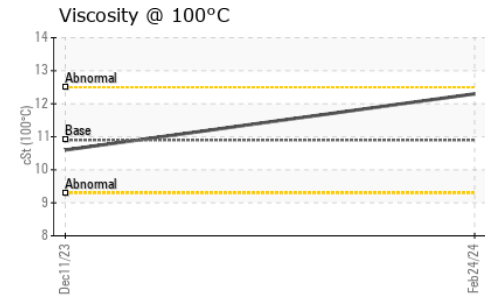
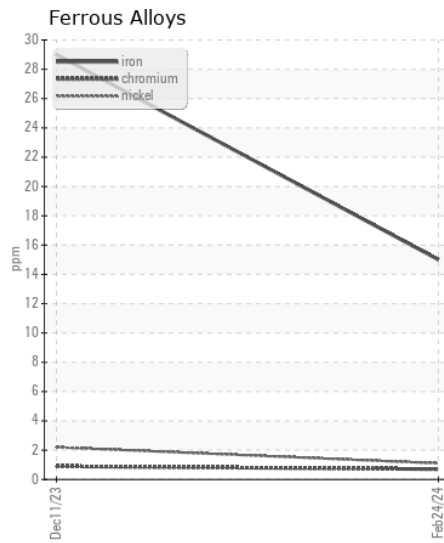
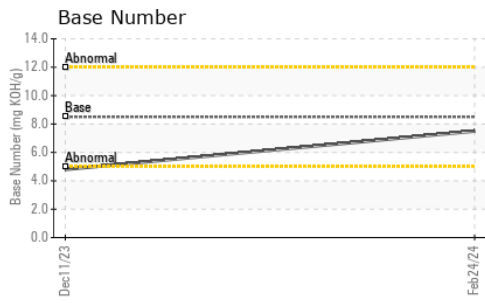
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 6 | 28 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 1 | --- |
| Fuel | % | ASTM D3524 | >6.0 | <1.0 | 0.9 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.5 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.7 | 9.6 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.3 | 20.5 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | 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 | >75 | 2 | 5 | --- |
| Boron | ppm | ASTM D5185m | 250 | 2 | 27 | --- |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 100 | 64 | 77 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 2 | --- |
| Magnesium | ppm | ASTM D5185m | 450 | 970 | 27 | --- |
| Calcium | ppm | ASTM D5185m | 3000 | 1138 | 2309 | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1070 | 997 | --- |
| Zinc | ppm | ASTM D5185m | 1350 | 1248 | 1157 | --- |
| Sulfur | ppm | ASTM D5185m | 4250 | 3194 | 3500 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.4 | 15.5 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 7.5 | 4.8 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 10.9 | 12.3 | 10.6 | --- |



Certificate L2367

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

Sample No. : ASC0008507

Lab Number : 06121451

Unique Number : 10930284

Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 18 Mar 2024

Tested : 19 Mar 2024

Diagnosed : 19 Mar 2024 - Wes Davis

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST

GREENVILLE, NC

US 27834

Contact: ALLEN WILLIAMS

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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: (704)494-8197