MOB I VOLVO

OIL ANALYSIS REPORT

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

Area
**[PCH]**
Machine Id
## VOLVO L120H NG VC06073782 (S/N NOT GIVEN)
Component
## Diesel Engine
Fluid
## VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

The aluminum level is abnormal. All other component wear rates are normal.

## CONTAMINATION

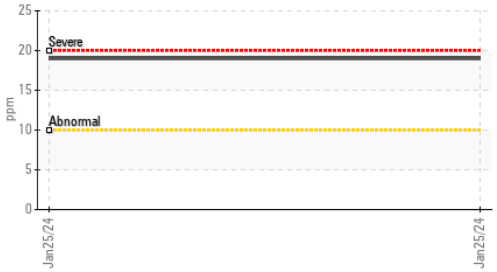
There is no indication of any contamination in the oil.

## FLUID CONDITION

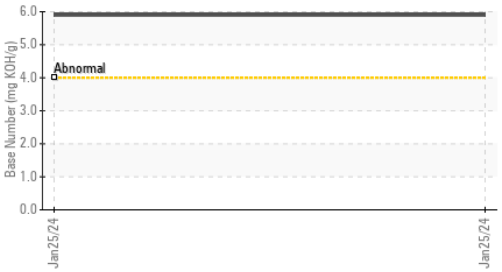
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | VC06073782 | --- | --- |
| Sample Date | | Client Info | | 25 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 2011 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >100 | 28 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >2 | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | ▲ 19 | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Copper | ppm | ASTM D5185m | >15 | 9 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >20 | 8 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 9 | --- | --- |
| 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 | 9.6 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.8 | --- | --- |
| 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 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 0 | --- | --- |
| Boron | ppm | ASTM D5185m | | 83 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 35 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 220 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1956 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 855 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1154 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3450 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.9 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.9 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 14.0 | --- | --- |

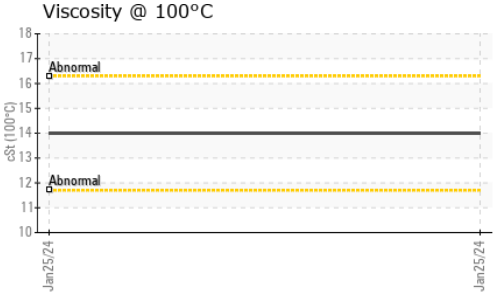
Aluminum (ppm)



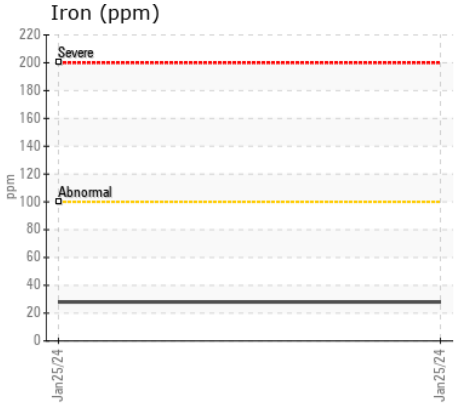

Base Number



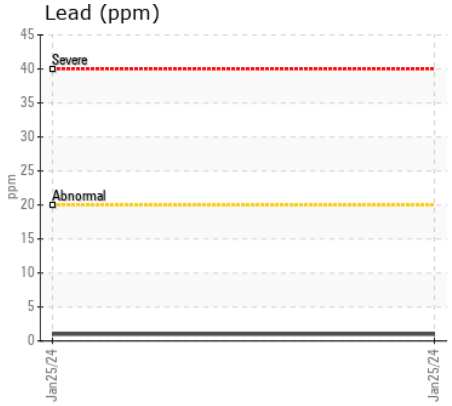

Viscosity @ 100°C



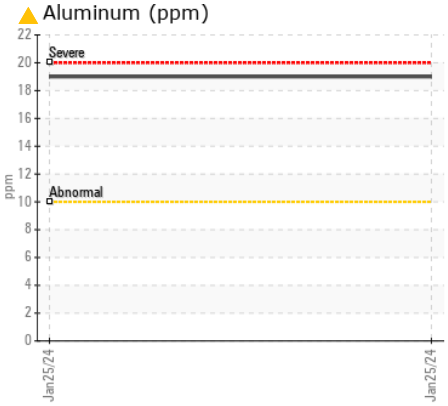

Iron (ppm)



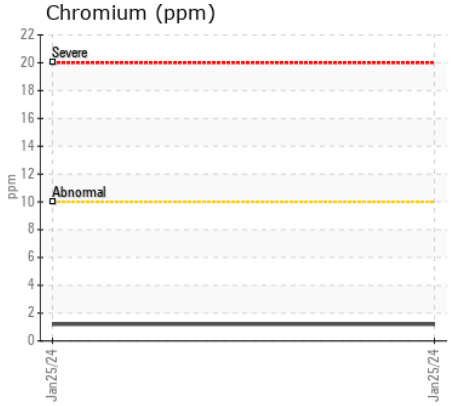

Lead (ppm)



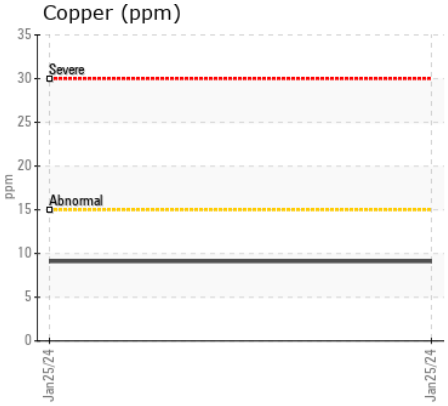

Aluminum (ppm)



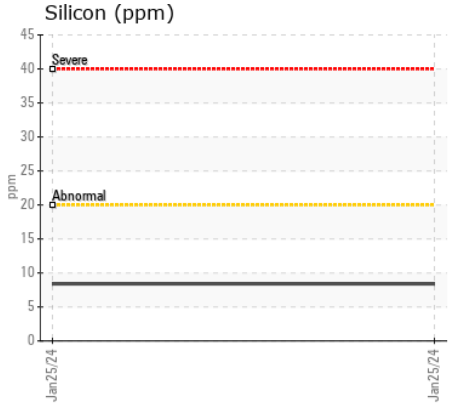

Chromium (ppm)



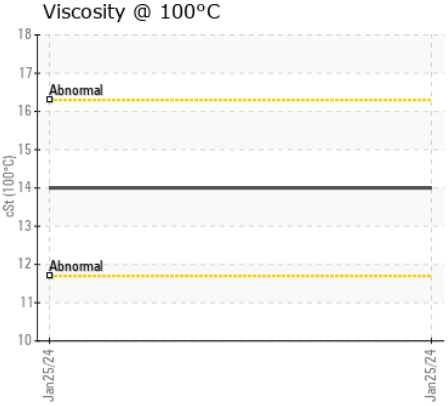

Copper (ppm)



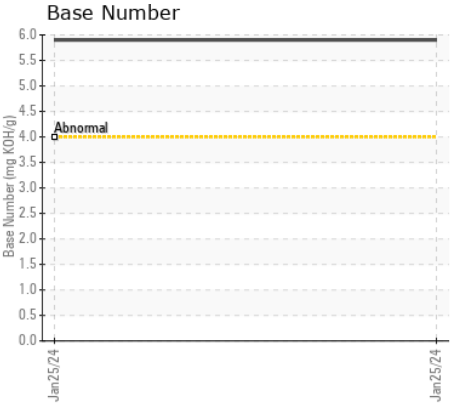

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : VC06073782 **Recieved** : 30 Jan 2024
**Lab Number** : 06073782 **Diagnosed** : 31 Jan 2024
**Unique Number** : 10855873 **Diagnostician** : Don Baldridge
**Test Package** : MOB 1 ( Additional Tests: TBN )

*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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