CONSTRUCTION EQUIPMENT SPM568252 VOLVO EC480E 315179 - DIESEL ENGINE

| Sample No: | VCP409216 | | | |
|------------|-----------------------------|--|--|--|
| Oil Type: | DIESEL ENGINE OIL SAE 15W40 | | | |
| Job No: | SPM568252 | | | |

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SAMPLE INFORMATION

VOLVO

| Sample Number | | VCP409216 | | |
|--------------------------|------------|---------------|------|--|
| Sample Date | | 27 Jul 2023 | | |
| Machine Hours | | 615 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | Changed | | |
| Sample Status | | ABNORMAL | | |
| | | | | |
| OIL COND | | | | |
| | | | | |
| Visc @ 100°C | cSt | A 10.9 | | |
| Base Number (BN) |) mg KOH/g | 4.9 | | |
| Oxidation (PA) | % | 73 | | |
| | | | | |
| CONTAM | | | | |
| | | | | |
| Soot % | % | 0.1 | | |
| Nitration (PA) | % | 84 | | |
| | 70 | 04 | | |
| Sulfation (PA) | % | 59 | | |
| Sulfation (PA) Glycol | | | | |
| . , | % | 59 | | |
| Glycol | % % | 59 NEG | | |

Potassium

ppm

| WEAR N | METALS | | | |
|------------|--------|------------|------|--|
| Iron | ppm | 14 | | |
| Copper | ppm | 🔺 194 | | |
| Lead | ppm | 2 | | |
| Tin | ppm | 3 | | |
| Aluminum | ppm | 4 | | |
| Chromium | ppm | <1 | | |
| Molybdenum | ppm | 76 | | |
| Nickel | ppm | ■ <1 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | 3 | | |
| Vanadium | ppm | 0 | | |



SIMS METAL MANAGEMENT

2500 S. PAULINA CHICAGO, IL US 60608 Contact: RYAN WISE ryan.wise@simsmm.com Τ· F:

Diagnosis

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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: SIMCHIIL Unique No: Signed: Report Date:

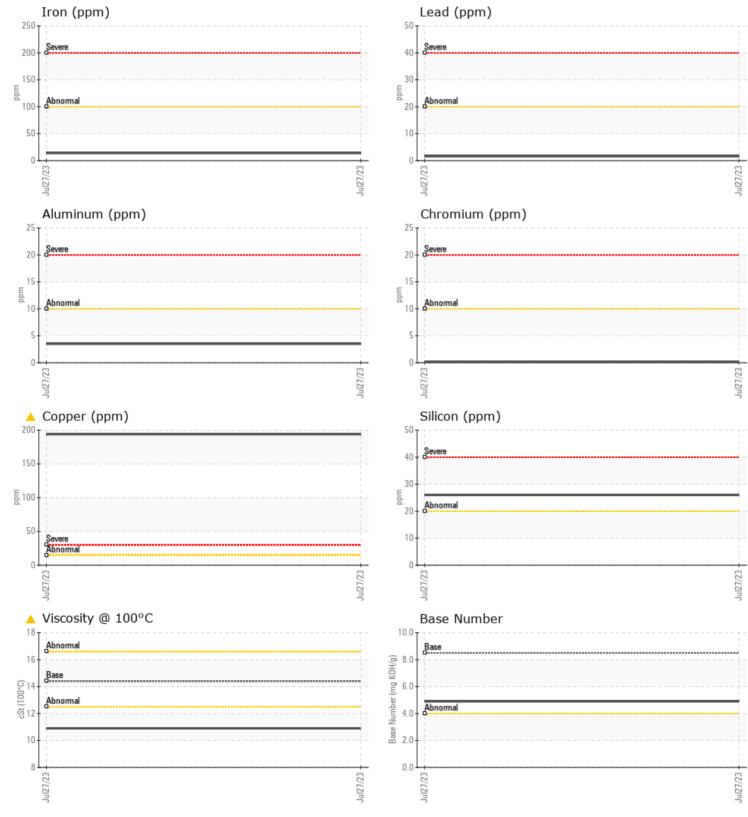
10601880 Don Baldridge 14 Aug 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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Contact/Location: RYAN WISE - SIMCHIIL