



CONSTRUCTION EQUIPMENT

VOLVO A40G 352489 - WET DISC BRAKE



Sample No: VCP446676
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP446676 | VCP436206 | VCP344047 | --- |
| Sample Date | 16 May 2024 | 13 Dec 2023 | 04 Nov 2021 | --- |
| Machine Hours | 7080 | 6270 | 2129 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Chngd | Changed | Not Chngd | --- |
| Sample Status | ABNORMAL | ABNORMAL | ABNORMAL | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|--------------|------|------|-----|
| Visc @ 40°C | cSt | 39.41 | 39.4 | 39.5 | --- |
|-------------|-----|--------------|------|------|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | --- |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 20 | 19 | 19 | --- |
| Sodium | ppm | 11 | 8 | 12 | --- |
| Potassium | ppm | 2 | 0 | 0 | --- |

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 21 | 17 | 15 | --- |
| Copper | ppm | 369 | 372 | 244 | --- |
| Lead | ppm | 4 | 4 | <1 | --- |
| Tin | ppm | 0 | 0 | <1 | --- |
| Aluminum | ppm | 1 | <1 | <1 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 0 | <1 | <1 | --- |
| Nickel | ppm | 7 | 7 | 6 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | <1 | 0 | <1 | --- |
| Manganese | ppm | 2 | 1 | 1 | --- |
| Vanadium | ppm | <1 | <1 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 3385 | 3050 | 3970 | --- |
| Magnesium | ppm | 4 | 0 | 10 | --- |
| Zinc | ppm | 1408 | 1296 | 1568 | --- |
| Phosphorus | ppm | 1278 | 1127 | 1388 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 115 | 106 | 141 | --- |

Depot: VOLVO0090
Unique No: 11035995
Signed: Jonathan Hester
Report Date: 29 May 2024

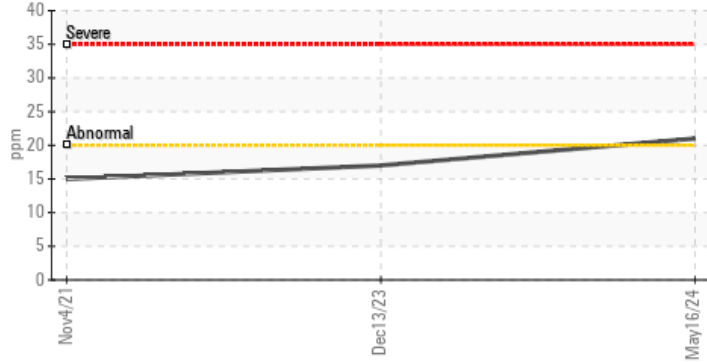


CONSTRUCTION EQUIPMENT

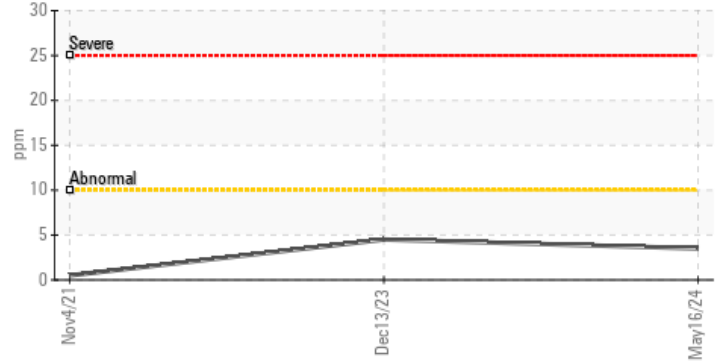


GRAPHS

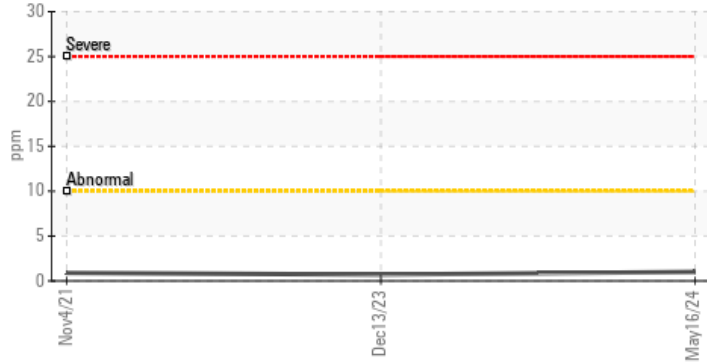
▲ Iron (ppm)



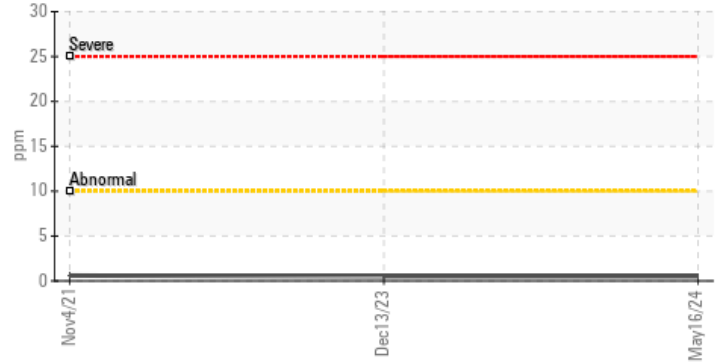
Lead (ppm)



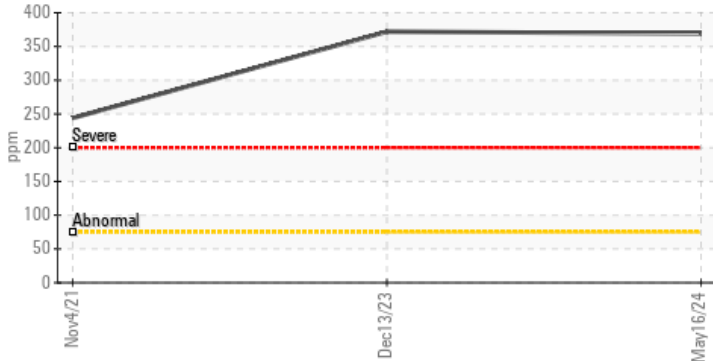
Aluminum (ppm)



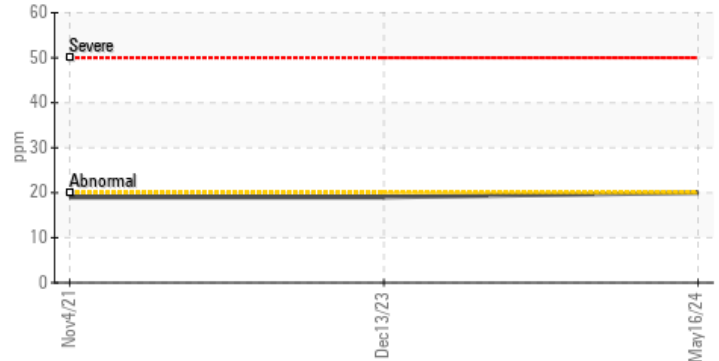
Chromium (ppm)



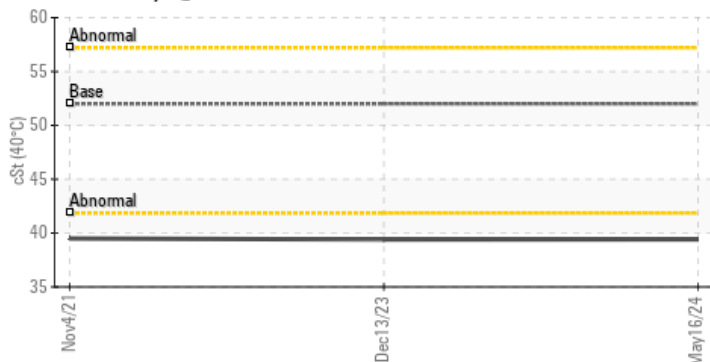
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

