



CONSTRUCTION EQUIPMENT

SWO-065619 VOLVO A45G 353092 - BRAKE



Sample No: VCP431099
Oil Type: NOT GIVEN
Job No: SWO-065619



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431099 | VCP407508 | VCP395498 | VCP379503 |
| Sample Date | 19 Sep 2023 | 09 Jun 2023 | 23 Feb 2023 | 26 Oct 2022 |
| Machine Hours | 2012 | 1497 | 1000 | 571 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | ABNORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 40.7 | 40.7 | 41.1 | 40.5 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-----|-----|-----|
| Water | % | 0.291 | --- | --- | --- |
| Silicon | ppm | 20 | 19 | 18 | 16 |
| Sodium | ppm | 10 | 11 | 12 | 10 |
| Potassium | ppm | 2 | 0 | 1 | 0 |

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 32 | 32 | 26 | 13 |
| Copper | ppm | 111 | 73 | 42 | 14 |
| Lead | ppm | 0 | 0 | <1 | 0 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | 3 | 0 | 2 | 0 |
| Chromium | ppm | <1 | 1 | 1 | <1 |
| Molybdenum | ppm | <1 | <1 | 0 | 0 |
| Nickel | ppm | 6 | 4 | 4 | 2 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 1 |
| Manganese | ppm | 1 | 1 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 3408 | 3674 | 3881 | 3943 |
| Magnesium | ppm | 7 | 9 | 9 | 12 |
| Zinc | ppm | 1508 | 1643 | 1662 | 1524 |
| Phosphorus | ppm | 1266 | 1355 | 1351 | 1199 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 116 | 121 | 128 | 137 |

Depot: SAIBIR
Unique No: 10661341
Signed: Jonathan Hester
Report Date: 27 Sep 2023

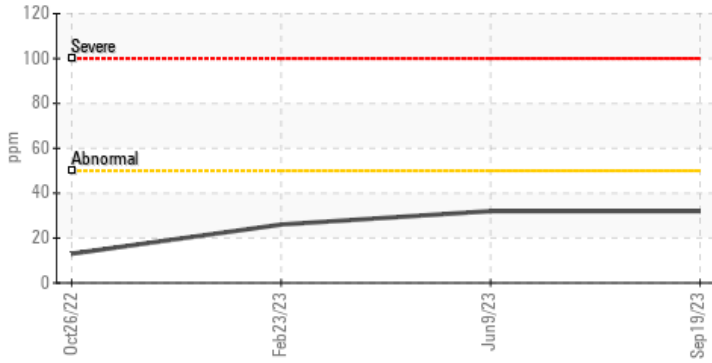


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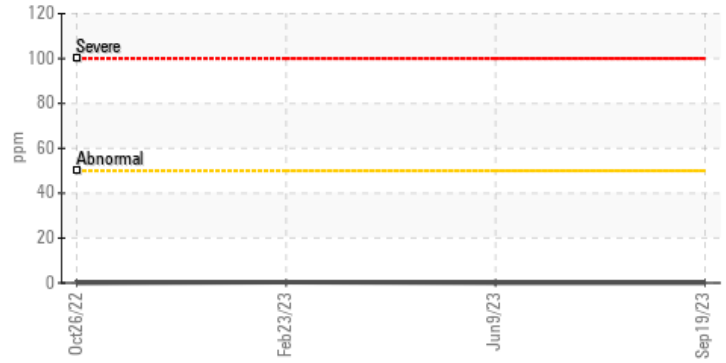


GRAPHS

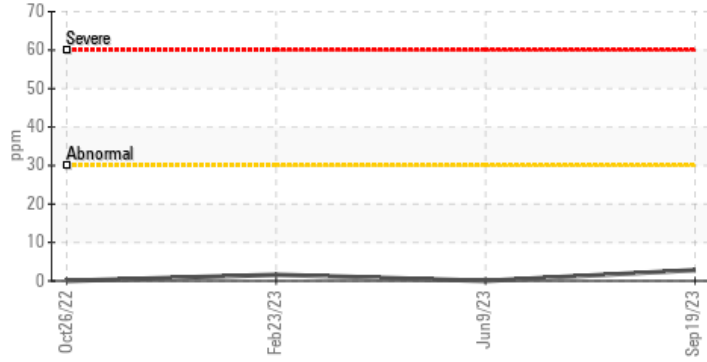
Iron (ppm)



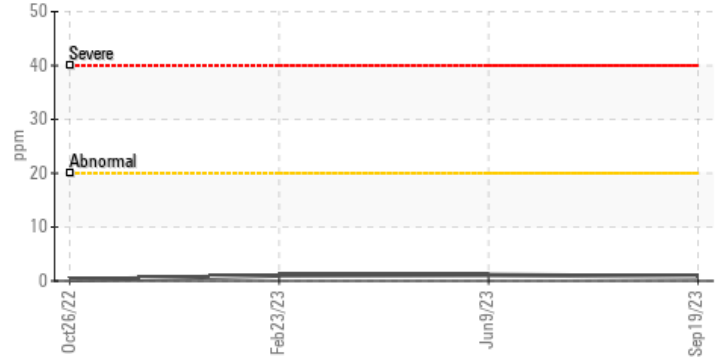
Lead (ppm)



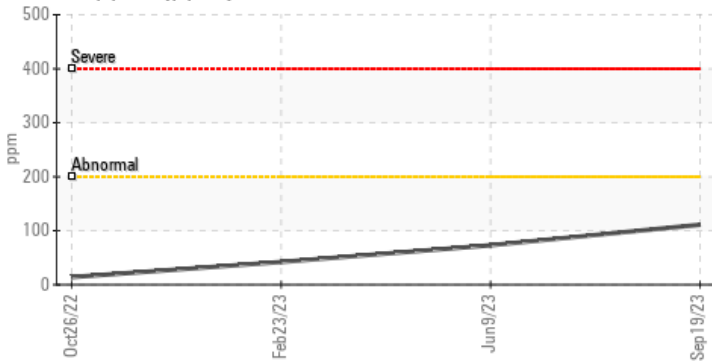
Aluminum (ppm)



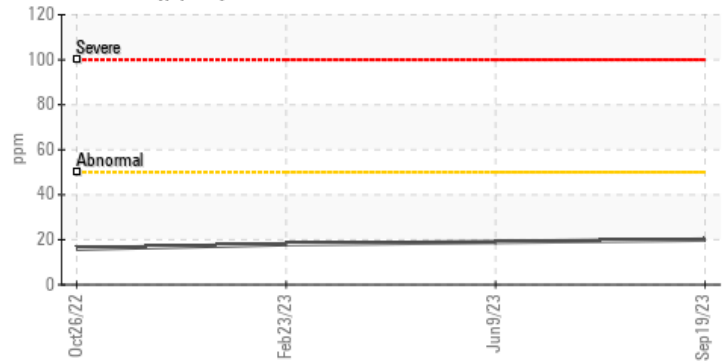
Chromium (ppm)



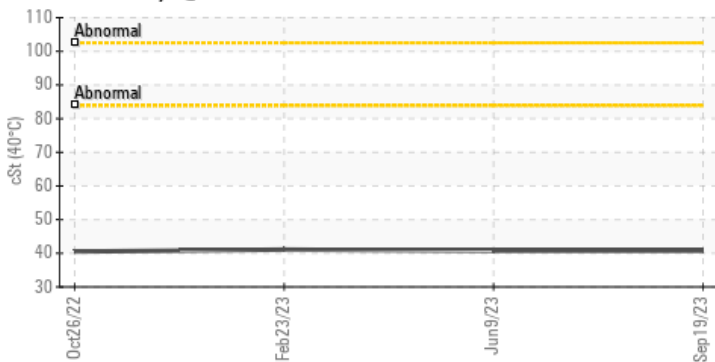
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Water

