



CONSTRUCTION EQUIPMENT

SWO-071952 VOLVO A45G 352969 - BRAKE



Sample No: VCP439687
Oil Type: VOLVO WB 101
Job No: SWO-071952



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP439687 | VCP446713 | VCP414811 | VCP433939 |
| Sample Date | 23 May 2024 | 27 Feb 2024 | 20 Dec 2023 | 19 Sep 2023 |
| Machine Hours | 3944 | 3453 | 2980 | 2491 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | ABNORMAL | ABNORMAL | ABNORMAL |

SAIIA CONSTRUCTION LLC

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 41.9 | 42.7 | 40.8 | 40.0 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 14 | 16 | 13 | 17 |
| Sodium | ppm | 9 | 10 | 0 | 9 |
| Potassium | ppm | 2 | 0 | 0 | 2 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 | 20 | 22 | 14 | 18 |
| Copper | ppm | 191 | 227 | 284 | 217 |
| Lead | ppm | 2 | 5 | 0 | 0 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | 2 | 2 |
| Chromium | ppm | <1 | <1 | 1 | <1 |
| Molybdenum | ppm | 1 | <1 | 0 | <1 |
| Nickel | ppm | 5 | 5 | <1 | 5 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 1 | 1 | 0 | 1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 2669 | 2989 | 3223 | 3145 |
| Magnesium | ppm | 140 | 50 | 48 | 32 |
| Zinc | ppm | 1409 | 1309 | 1459 | 1417 |
| Phosphorus | ppm | 1240 | 1180 | 1310 | 1200 |
| Barium | ppm | 0 | 0 | 4 | 0 |
| Boron | ppm | 86 | 95 | 103 | 113 |

Depot: SAIBIR
Unique No: 11057926
Signed: Don Baldrige
Report Date: 01 Jun 2024

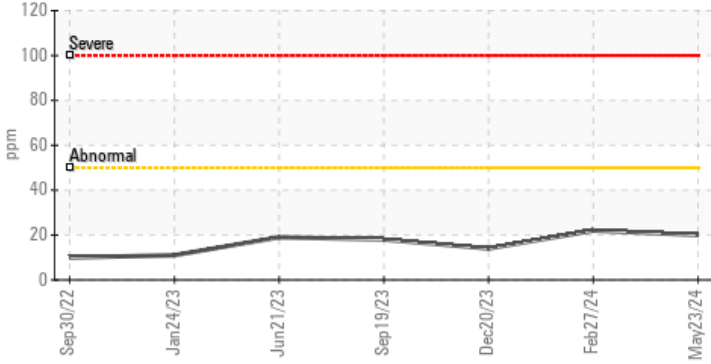


CONSTRUCTION EQUIPMENT

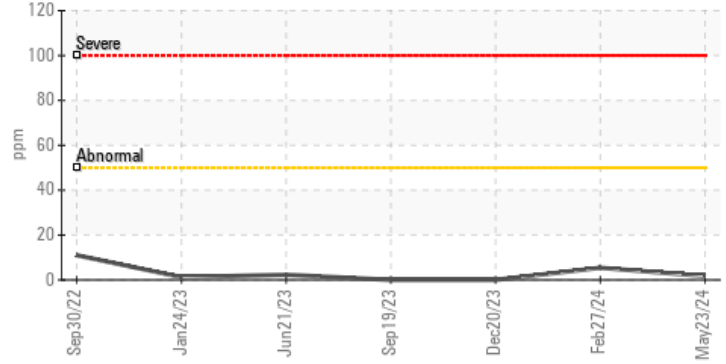


GRAPHS

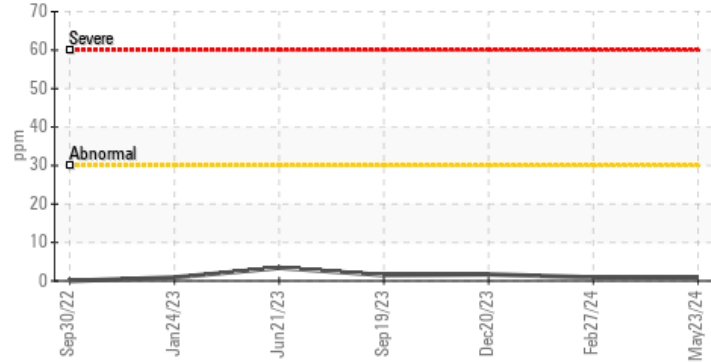
Iron (ppm)



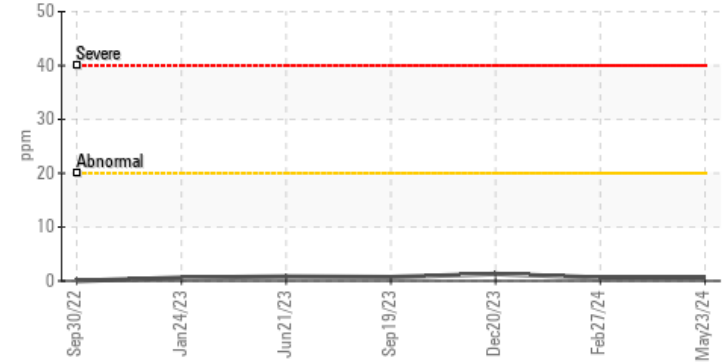
Lead (ppm)



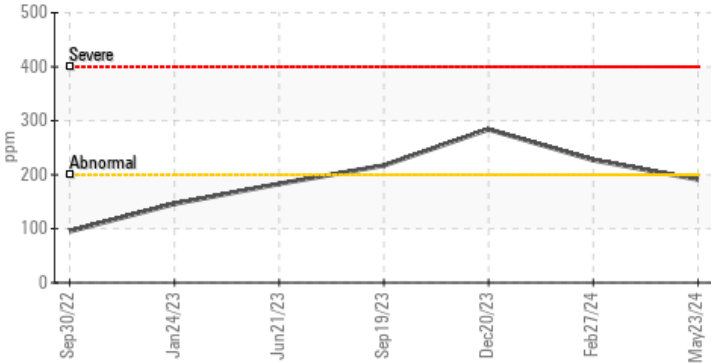
Aluminum (ppm)



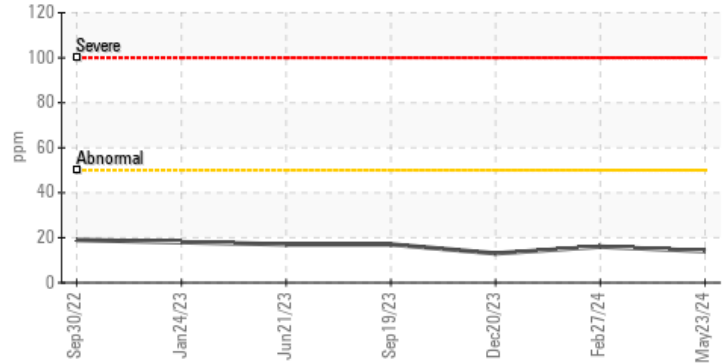
Chromium (ppm)



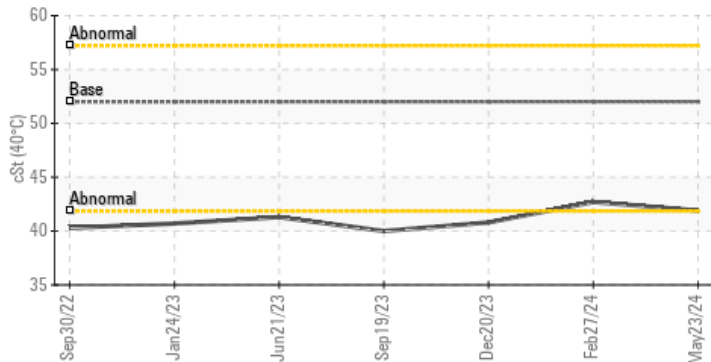
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

