



CONSTRUCTION EQUIPMENT

X18599 GP BROOKHAVEN VOLVO L110H 632051 - DIESEL ENGINE



Sample No: VCP438307
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18599 GP BROOKHAVEN



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP438307 | VCP443233 | --- | --- |
| Sample Date | 09 May 2024 | 13 Feb 2024 | --- | --- |
| Machine Hours | 9796 | 9001 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C | cSt | 13.1 | 14.3 | --- | --- |
| Base Number (BN) | mg KOH/g | 9.6 | 7.8 | --- | --- |
| Oxidation (PA) | % | 81 | 67 | --- | --- |

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



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | 0.4 | 0.3 | --- | --- |
| Nitration (PA) | % | 71 | 63 | --- | --- |
| Sulfation (PA) | % | 61 | 57 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | 8 | 4 | --- | --- |
| Sodium | ppm | 7 | 2 | --- | --- |
| Potassium | ppm | 5 | 6 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-----------|----|-----|-----|
| Iron | ppm | 13 | 8 | --- | --- |
| Copper | ppm | 4 | <1 | --- | --- |
| Lead | ppm | 3 | 0 | --- | --- |
| Tin | ppm | 3 | <1 | --- | --- |
| Aluminum | ppm | 7 | 4 | --- | --- |
| Chromium | ppm | 3 | <1 | --- | --- |
| Molybdenum | ppm | 35 | 6 | --- | --- |
| Nickel | ppm | 3 | 0 | --- | --- |
| Titanium | ppm | 2 | 1 | --- | --- |
| Silver | ppm | 3 | 0 | --- | --- |
| Manganese | ppm | 3 | 0 | --- | --- |
| Vanadium | ppm | 2 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 1750 | 2009 | --- | --- |
| Magnesium | ppm | 402 | 93 | --- | --- |
| Zinc | ppm | 1106 | 1170 | --- | --- |
| Phosphorus | ppm | 933 | 966 | --- | --- |
| Barium | ppm | 1 | 0 | --- | --- |
| Boron | ppm | 43 | 134 | --- | --- |

Depot: VOLV08771
Unique No: 11033695
Signed: Don Baldrige
Report Date: 20 May 2024

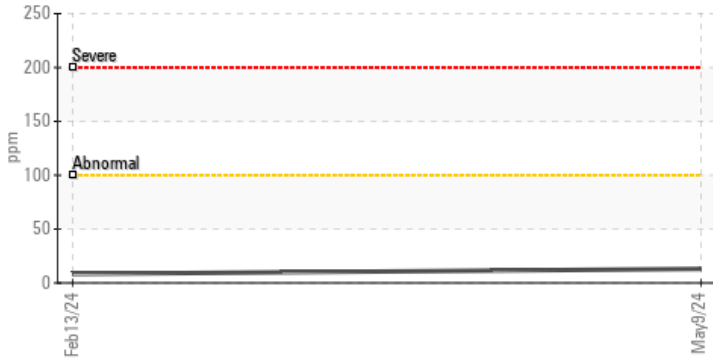


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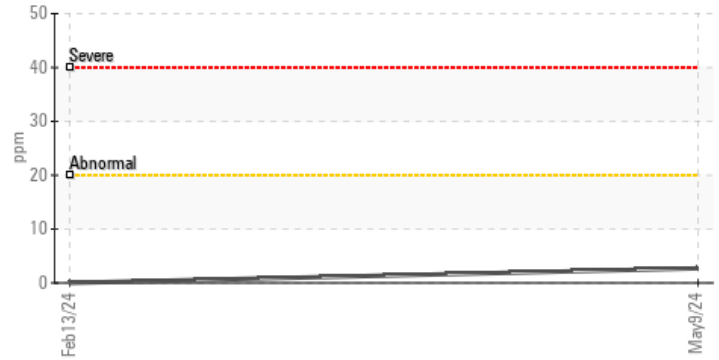


GRAPHS

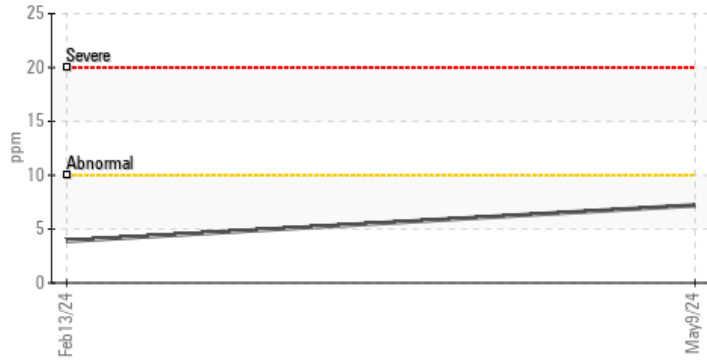
Iron (ppm)



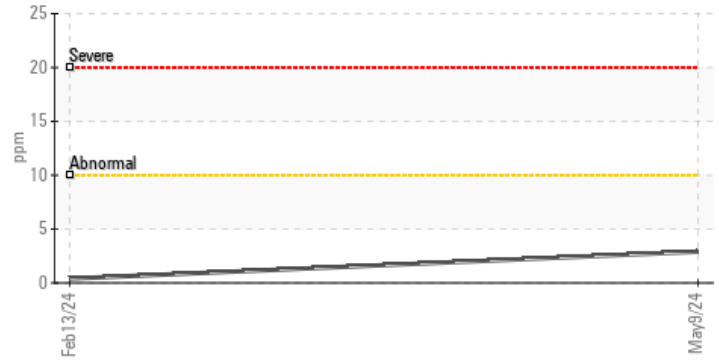
Lead (ppm)



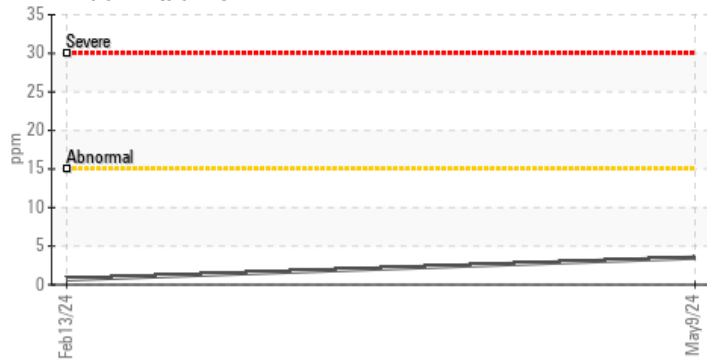
Aluminum (ppm)



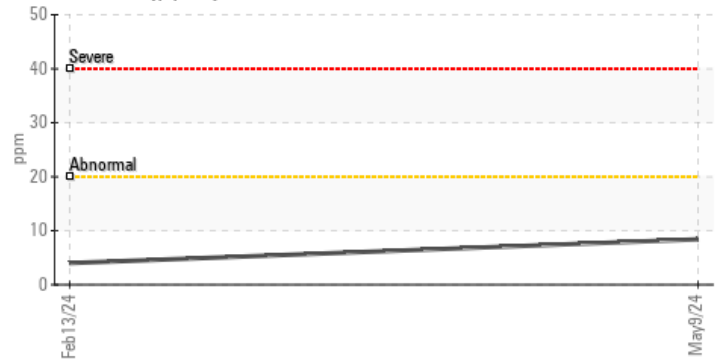
Chromium (ppm)



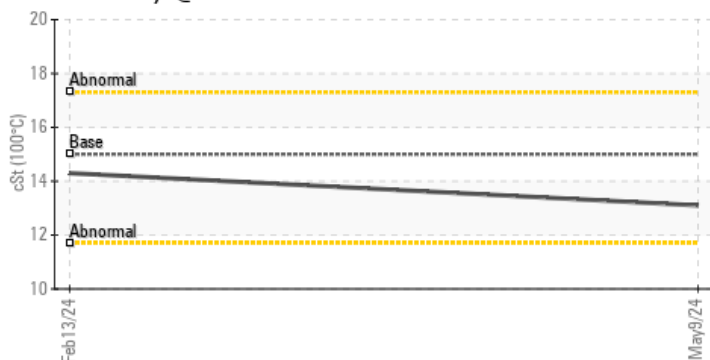
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

