



CONSTRUCTION EQUIPMENT

SPM702800 FERROUS VOLVO L70H 624915 - DIESEL ENGINE



Sample No: VCP454789
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM702800 FERROUS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP454789 | VCP420031 | --- | --- |
| Sample Date | 02 May 2024 | 07 Jul 2023 | --- | --- |
| Machine Hours | 4649 | 775 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C | cSt | 13.3 | 12.6 | --- | --- |
| Base Number (BN) | mg KOH/g | 9.9 | 7.9 | --- | --- |
| Oxidation (PA) | % | 73 | 55 | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | 0.4 | 0.2 | --- | --- |
| Nitration (PA) | % | 53 | 58 | --- | --- |
| Sulfation (PA) | % | 60 | 54 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | 8 | 8 | --- | --- |
| Sodium | ppm | 2 | 2 | --- | --- |
| Potassium | ppm | 1 | 0 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 26 | 11 | --- | --- |
| Copper | ppm | 1 | 2 | --- | --- |
| Lead | ppm | <1 | 0 | --- | --- |
| Tin | ppm | 1 | 1 | --- | --- |
| Aluminum | ppm | ▲ 40 | 5 | --- | --- |
| Chromium | ppm | 3 | <1 | --- | --- |
| Molybdenum | ppm | 44 | 84 | --- | --- |
| Nickel | ppm | 0 | 0 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | 1 | 1 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 1694 | 1491 | --- | --- |
| Magnesium | ppm | 533 | 506 | --- | --- |
| Zinc | ppm | 1143 | 1240 | --- | --- |
| Phosphorus | ppm | 966 | 1016 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 28 | 399 | --- | --- |

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 aluminum level is abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO0090
Unique No: 11016898
Signed: Don Baldrige
Report Date: 08 May 2024



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GRAPHS

