

LIEBHERR

CONSTRUCTION EQUIPMENT



[SUBLATUS] 147537 - Diesel Engine

Sample No: LH0269733

Oil Type: {unknown}



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0269733 | --- | --- | --- |
| Sample Date | 17 Jan 2024 | --- | --- | --- |
| Machine Hours | 900 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|----------------|-----|------|-----|-----|-----|
| Visc @ 100°C | cSt | 11.5 | --- | --- | --- |
| Oxidation (PA) | % | 155 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | 0 | --- | --- | --- |
| Nitration (PA) | % | 88 | --- | --- | --- |
| Sulfation (PA) | % | 91 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | 9 | --- | --- | --- |
| Sodium | ppm | 3 | --- | --- | --- |
| Potassium | ppm | 2 | --- | --- | --- |

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. 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 | 10 | --- | --- | --- |
| Copper | ppm | 343 | --- | --- | --- |
| Lead | ppm | 8 | --- | --- | --- |
| Tin | ppm | 1 | --- | --- | --- |
| Aluminum | ppm | 4 | --- | --- | --- |
| Chromium | ppm | <1 | --- | --- | --- |
| Molybdenum | ppm | 45 | --- | --- | --- |
| Nickel | ppm | 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 1314 | --- | --- | --- |
| Magnesium | ppm | 830 | --- | --- | --- |
| Zinc | ppm | 900 | --- | --- | --- |
| Phosphorus | ppm | 795 | --- | --- | --- |
| Barium | ppm | 29 | --- | --- | --- |
| Boron | ppm | 80 | --- | --- | --- |

Depot: LIESPR
Unique No: 5722455
Signed: Bill Quesnel
Report Date: 05 Feb 2024



GRAPHS

