

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 1217-146108 - Diesel Engine

Sample No: LH0269013

Oil Type: DURALENE Dura-Max 15W40



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0269013 | LH0269005 | --- | --- |
| Sample Date | 16 Mar 2024 | 04 Dec 2023 | --- | --- |
| Machine Hours | 1707 | 1154 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|------|------|-----|-----|
| Visc @ 100°C | cSt | 13.1 | 12.7 | --- | --- |
| Base Number (BN) | mg KOH/g | 6.0 | 5.7 | --- | --- |
| Oxidation (PA) | % | 51 | 60 | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|------|------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | 0.1 | 0.1 | --- | --- |
| Nitration (PA) | % | 63 | 63 | --- | --- |
| Sulfation (PA) | % | 53 | 58 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | 6 | 4 | --- | --- |
| Sodium | ppm | <1 | 2 | --- | --- |
| Potassium | ppm | 4 | 3 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|----|----|-----|-----|
| Iron | ppm | 7 | 5 | --- | --- |
| Copper | ppm | 25 | 95 | --- | --- |
| Lead | ppm | 1 | 1 | --- | --- |
| Tin | ppm | 2 | <1 | --- | --- |
| Aluminum | ppm | 3 | 1 | --- | --- |
| Chromium | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 5 | 4 | --- | --- |
| Nickel | ppm | <1 | 0 | --- | --- |
| Titanium | ppm | <1 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|------|-----|-----|
| Calcium | ppm | 3772 | 2225 | --- | --- |
| Magnesium | ppm | 70 | 84 | --- | --- |
| Zinc | ppm | 1672 | 1063 | --- | --- |
| Phosphorus | ppm | 1348 | 839 | --- | --- |
| Barium | ppm | 2 | 2 | --- | --- |
| Boron | ppm | 4 | 4 | --- | --- |

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.

Depot: CONHAG
Unique No: 10942574
Signed: Don Baldrige
Report Date: 28 Mar 2024



GRAPHS

