

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 143328-1253 - Diesel Engine

Sample No: LH0248002

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

| Sample Number | LH0248002 | LH0247999 | LH0247978 | LH0247963 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 19 Sep 2023 | 16 Aug 2023 | 03 Apr 2023 | 02 Mar 2023 |
| Machine Hours | 4001 | 3566 | 1919 | 500 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Changed | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

Scierie Girard Inc.

5872 Rte. Bouleaux (Route 172)

Shipshaw, QC

CA G7P 1E3

Contact: Service

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T:

F:



OIL CONDITION

| Visc @ 100°C | cSt | 12.6 | 12.9 | 12.6 | 12.0 |
|----------------|-----|------|------|------|------|
| Oxidation (PA) | % | 88 | 82 | 83 | 209 |



CONTAMINATION

| Soot % | % | 0 | 0 | 0 | 0 |
|----------------|-----|------|------|------|-----|
| Nitration (PA) | % | 83 | 83 | 83 | 98 |
| Sulfation (PA) | % | 61 | 58 | 65 | 116 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | 0.5 |
| Silicon | ppm | 3 | 3 | 3 | 9 |
| Sodium | ppm | 5 | 5 | 5 | 2 |
| Potassium | ppm | 1 | 2 | <1 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|-----|
| Iron | ppm | 5 | 3 | 5 | 10 |
| Copper | ppm | 3 | 3 | 13 | 334 |
| Lead | ppm | <1 | <1 | <1 | 10 |
| Tin | ppm | <1 | <1 | <1 | 1 |
| Aluminum | ppm | 1 | <1 | 1 | 4 |
| Chromium | ppm | <1 | 0 | <1 | 1 |
| Molybdenum | ppm | 57 | 57 | 57 | 46 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | <1 | <1 | 0 | 0 |
| Manganese | ppm | 0 | 0 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 795 | 816 | 877 | 1510 |
| Magnesium | ppm | 1094 | 1107 | 1145 | 929 |
| Zinc | ppm | 1170 | 1195 | 1221 | 885 |
| Phosphorus | ppm | 956 | 975 | 1096 | 809 |
| Barium | ppm | <1 | <1 | <1 | 32 |
| Boron | ppm | 19 | 18 | 32 | 105 |

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: SCISHI

Unique No: 5645938

Signed: Wes Davis

Report Date: 25 Sep 2023



GRAPHS

