

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 052872-1332 - Diesel Engine

Sample No: LH0256457

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

| Sample Number | LH0256457 | LH0242121 | LH0242211 | LH0119144 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 28 Jun 2023 | 20 Feb 2023 | 01 Dec 2022 | 26 Jul 2022 |
| Machine Hours | 20000 | 18000 | 16900 | 15125 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | N/A | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |

Resolute Forest Products

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OIL CONDITION

| Visc @ 100°C | cSt | 11.9 | 11.9 | 11.7 | 11.9 |
|----------------|-----|------|------|------|------|
| Oxidation (PA) | % | 92 | 100 | 88 | 99 |



CONTAMINATION

| Soot % | % | 0 | 0 | 0 | 0 |
|----------------|-----|------|------|-----|------|
| Nitration (PA) | % | 95 | 94 | 88 | 95 |
| Sulfation (PA) | % | 62 | 70 | 61 | 65 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | 1.2 | <1.0 |
| Silicon | ppm | 8 | 7 | 6 | 10 |
| Sodium | ppm | 5 | 5 | 5 | 6 |
| Potassium | ppm | <1 | <1 | <1 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 5 | 5 | 3 | 8 |
| Copper | ppm | 2 | 1 | 1 | 2 |
| Lead | ppm | <1 | <1 | <1 | <1 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 2 | 2 | 2 | 3 |
| Chromium | ppm | <1 | <1 | 0 | <1 |
| Molybdenum | ppm | 60 | 62 | 58 | 59 |
| Nickel | ppm | 0 | 0 | <1 | 0 |
| Titanium | ppm | <1 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 838 | 883 | 851 | 865 |
| Magnesium | ppm | 1176 | 1160 | 1121 | 1168 |
| Zinc | ppm | 1271 | 1268 | 1244 | 1240 |
| Phosphorus | ppm | 1104 | 1133 | 1087 | 996 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 27 | 31 | 28 | 18 |

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: RESBAI
Unique No: 5644158
Signed: Wes Davis
Report Date: 18 Sep 2023



GRAPHS

