

LIEBHERR

CONSTRUCTION EQUIPMENT



102965-1216 - Diesel Engine

Sample No: LH0260837

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0260837 | LH0091655 | LH0105674 | LH0091545 |
| Sample Date | 08 Aug 2023 | 09 Aug 2020 | 19 May 2020 | 05 Nov 2019 |
| Machine Hours | 8799 | 4606 | 4123 | 3161 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

American Iron and Metal

19 RUE FOURNIER
VICTORIAVILLE, QC
CA G6P 2P9

Contact: Daniel Caron



OIL CONDITION

| | | | | | |
|----------------|-----|------|------|------|------|
| Visc @ 100°C | cSt | 13.6 | 13.8 | 12.1 | 13.9 |
| Oxidation (PA) | % | 53 | 73 | 88 | 83 |

T: (418)569-6420

F:



CONTAMINATION

| | | | | | |
|----------------|-----|-------|------|-----|------|
| Water | % | 0.030 | --- | --- | --- |
| Soot % | % | 0 | 0 | 0 | 0 |
| Nitration (PA) | % | 65 | 83 | 93 | 87 |
| Sulfation (PA) | % | 53 | 60 | 72 | 78 |
| Glycol | % | 0.0 | NEG | NEG | 0.0 |
| Fuel | % | <1.0 | <1.0 | 0.8 | <1.0 |
| Silicon | ppm | 9 | 5 | 2 | 2 |
| Sodium | ppm | 2 | 2 | 3 | 2 |
| Potassium | ppm | <1 | <1 | <1 | 5 |

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. La teneur en eau est négligeable. Le test de glycol est négatif. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 1 | 3 | 4 | 4 |
| Copper | ppm | <1 | 2 | 1 | 2 |
| Lead | ppm | <1 | 1 | 0 | 1 |
| Tin | ppm | 0 | <1 | 0 | <1 |
| Aluminum | ppm | 2 | 2 | 1 | 2 |
| Chromium | ppm | 0 | <1 | <1 | <1 |
| Molybdenum | ppm | 85 | 84 | 61 | 35 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | <1 | <1 | <1 |
| Silver | ppm | 0 | <1 | <1 | <1 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 2096 | 2052 | 835 | 2176 |
| Magnesium | ppm | 80 | 196 | 1112 | 113 |
| Zinc | ppm | 1185 | 1207 | 1239 | 1198 |
| Phosphorus | ppm | 1106 | 1019 | 1047 | 963 |
| Barium | ppm | 0 | <1 | <1 | <1 |
| Boron | ppm | 68 | 24 | 29 | 47 |

Depot: AIMVIC

Unique No: 5620154

Signed: Kevin Marson

Report Date: 11 Aug 2023



GRAPHS

