

LIEBHERR

CONSTRUCTION EQUIPMENT



28550 - Diesel Engine

Sample No: LH0289849
 Oil Type: DIESEL ENGINE OIL SAE 15W40



Sample Information

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0289849 | LH0227195 | --- | --- |
| Sample Date | 10 May 2024 | 04 Apr 2022 | --- | --- |
| Machine Hours | 8963 | 8200 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | ABNORMAL | --- | --- |

American Iron and Metal
 200 rue Nadon
 Amos, QC
 CA J9T 3A1
 Contact: Service Manager



Oil Condition

| | | | | | |
|----------------|-----|------|------|-----|-----|
| Visc @ 100°C | cSt | 13.3 | 11.2 | --- | --- |
| Oxidation (PA) | % | 57 | 41 | --- | --- |

T:
F:



Contamination

| | | | | | |
|----------------|-----|------|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | 0.3 | 0 | --- | --- |
| Nitration (PA) | % | 72 | 58 | --- | --- |
| Sulfation (PA) | % | 56 | 53 | --- | --- |
| Glycol | % | NEG | 0.0 | --- | --- |
| Fuel | % | <1.0 | 0.9 | --- | --- |
| Silicon | ppm | 5 | 7 | --- | --- |
| Sodium | ppm | 1 | 2 | --- | --- |
| Potassium | ppm | <1 | 1 | --- | --- |

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.



Wear Metals

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Iron | ppm | 29 | 14 | --- | --- |
| Copper | ppm | 119 | 413 | --- | --- |
| Lead | ppm | 5 | 14 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | 2 | 2 | --- | --- |
| Chromium | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 33 | 9 | --- | --- |
| Nickel | ppm | 0 | 0 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



Additives

| | | | | | |
|------------|-----|------|------|-----|-----|
| Calcium | ppm | 1661 | 2158 | --- | --- |
| Magnesium | ppm | 518 | 141 | --- | --- |
| Zinc | ppm | 1194 | 1079 | --- | --- |
| Phosphorus | ppm | 1023 | 972 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 18 | 2 | --- | --- |

Depot: AIMAMO
 Unique No: 5776037
 Signed: Wes Davis
 Report Date: 13 May 2024



Graphs

