

LIEBHERR

CONSTRUCTION EQUIPMENT



[[MANASSAS TOPSOIL]] LIEBHERR L556 050193-1332 - Diesel

Sample No: LH0258952

Oil Type: LIEBHERR MOTOROIL 5W30



LIEBHERR EQUIPMENT SOURCE
 10119 RESIDENCY ROAD
 MANASSAS, VA
 US 20110
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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0258952 | --- | --- | --- |
| Sample Date | 18 Oct 2023 | --- | --- | --- |
| Machine Hours | 1670 | --- | --- | --- |
| Oil Hours | 1670 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |



OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ● 11.3 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ● 5.0 | --- | --- | --- |
| Oxidation (PA) | % | 173 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ● 0.1 | --- | --- | --- |
| Nitration (PA) | % | 123 | --- | --- | --- |
| Sulfation (PA) | % | 99 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | ● 16 | --- | --- | --- |
| Sodium | ppm | ● 1 | --- | --- | --- |
| Potassium | ppm | ● 5 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ● 21 | --- | --- | --- |
| Copper | ppm | ● 36 | --- | --- | --- |
| Lead | ppm | ● 19 | --- | --- | --- |
| Tin | ppm | ● 2 | --- | --- | --- |
| Aluminum | ppm | ● 2 | --- | --- | --- |
| Chromium | ppm | ● <1 | --- | --- | --- |
| Molybdenum | ppm | ● 36 | --- | --- | --- |
| Nickel | ppm | ● 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | ● <1 | --- | --- | --- |
| Manganese | ppm | ● 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ● 2110 | --- | --- | --- |
| Magnesium | ppm | ● 669 | --- | --- | --- |
| Zinc | ppm | ● 1014 | --- | --- | --- |
| Phosphorus | ppm | ● 737 | --- | --- | --- |
| Barium | ppm | ● 39 | --- | --- | --- |
| Boron | ppm | ● 98 | --- | --- | --- |

Diagnosis

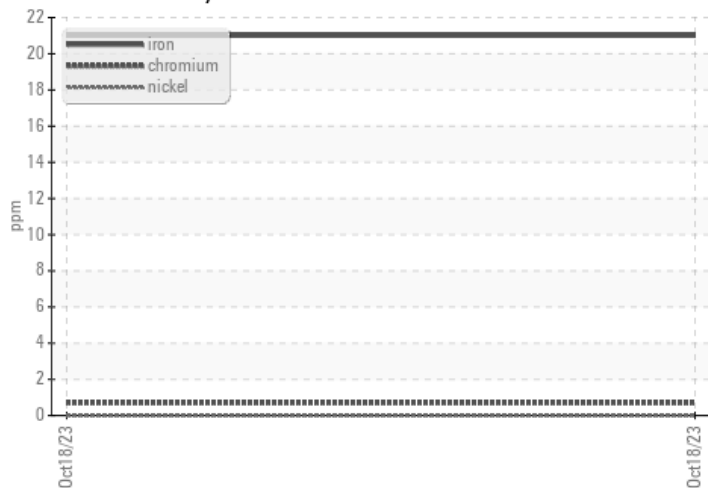
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LIEBHERRVA
Unique No: 10735883
Signed: Angela Borella
Report Date: 10 Nov 2023

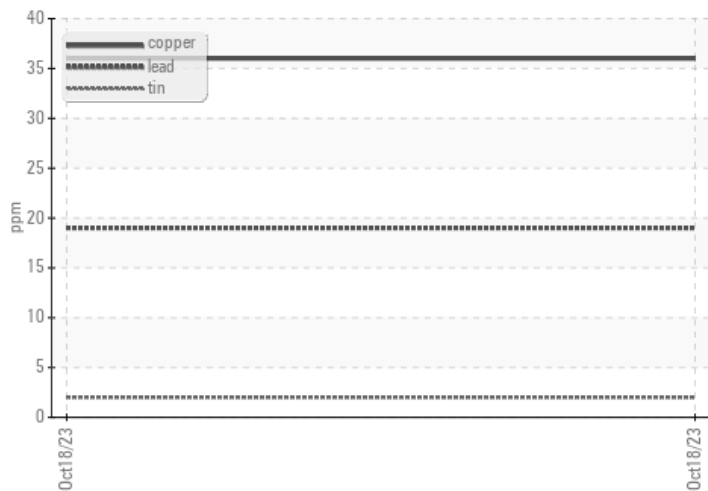


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

