

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100 184947 - Auxiliary Winch

Sample No: LH0296497

Oil Type: GEAR OIL SAE 75W90



Sample Information

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0296497 | --- | --- | --- |
| Sample Date | 01 Jul 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 104 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

T: (519)631-4095

F: (519)631-2745



Contamination

| | | | | | |
|-----------|-----|------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | ● 0 | --- | --- | --- |
| Sodium | ppm | ● <1 | --- | --- | --- |
| Potassium | ppm | ● <1 | --- | --- | --- |

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

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



Additives

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ● 11 | --- | --- | --- |
| Magnesium | ppm | ● 3 | --- | --- | --- |
| Zinc | ppm | ● 16 | --- | --- | --- |
| Phosphorus | ppm | ● 1119 | --- | --- | --- |
| Barium | ppm | ● 0 | --- | --- | --- |
| Boron | ppm | ● 278 | --- | --- | --- |

Depot: HIGSTT

Unique No: 5802490

Signed: Wes Davis

Report Date: 02 Jul 2024



Graphs

