

LIEBHERR

CONSTRUCTION EQUIPMENT



[MARATHON] LIEBHERR HS855 184576 - Right Swing Drive

Sample No: LH0296763

Oil Type: GEAR OIL SAE 75W90



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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Sample Information

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0296763 | LH0134228 | --- | --- |
| Sample Date | 27 Jun 2024 | 30 May 2019 | --- | --- |
| Machine Hours | 25032 | 21032 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |



Oil Condition

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | ● 140 | ● 113 | --- | --- |
|-------------|-----|-------|-------|-----|-----|



Contamination

| | | | | | |
|-----------|-----|------|------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | ● <1 | ● 8 | --- | --- |
| Sodium | ppm | ● <1 | ● 7 | --- | --- |
| Potassium | ppm | ● <1 | ● <1 | --- | --- |



Wear Metals

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | ● 7 | ● 12 | --- | --- |
| Copper | ppm | ● <1 | ● 0 | --- | --- |
| Lead | ppm | ● 0 | ● 0 | --- | --- |
| Tin | ppm | ● 0 | ● 0 | --- | --- |
| Aluminum | ppm | ● <1 | ● <1 | --- | --- |
| Chromium | ppm | ● 0 | ● 0 | --- | --- |
| Molybdenum | ppm | ● 0 | ● 0 | --- | --- |
| Nickel | ppm | ● <1 | 0 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | ● 0 | ● <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



Additives

| | | | | | |
|------------|-----|------|--------|-----|-----|
| Calcium | ppm | ● 2 | ● 9 | --- | --- |
| Magnesium | ppm | ● <1 | ● <1 | --- | --- |
| Zinc | ppm | ● 2 | ● 7 | --- | --- |
| Phosphorus | ppm | 353 | ● 1346 | --- | --- |
| Barium | ppm | ● <1 | ● <1 | --- | --- |
| Boron | ppm | ● 20 | ● 241 | --- | --- |

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 condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5802498
 Signed: Wes Davis
 Report Date: 02 Jul 2024



Graphs

