

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LR1250.1 LH35298 (S/N 135.298) - Rear Right Wheel

Sample No: LH0258464

Oil Type: GEAR OIL SAE 80W90



**KINDER MORGAN**  
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 US 35601  
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#### Sample Information

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0258464   | --- | --- | --- |
| Sample Date   | 16 Apr 2024 | --- | --- | --- |
| Machine Hours | 3348        | --- | --- | --- |
| Oil Hours     | 1311        | --- | --- | --- |
| Oil Changed   | Not Chngd   | --- | --- | --- |
| Sample Status | ATTENTION   | --- | --- | --- |



#### Oil Condition

|             |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 103 | --- | --- | --- |
|-------------|-----|-----|-----|-----|-----|



#### Contamination

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | --- | --- | --- |
| Silicon   | ppm | 4   | --- | --- | --- |
| Sodium    | ppm | <1  | --- | --- | --- |
| Potassium | ppm | 0   | --- | --- | --- |



#### Wear Metals

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 167 | --- | --- | --- |
| Copper     | ppm | 5   | --- | --- | --- |
| Lead       | ppm | 0   | --- | --- | --- |
| Tin        | ppm | 0   | --- | --- | --- |
| Aluminum   | ppm | <1  | --- | --- | --- |
| Chromium   | ppm | 2   | --- | --- | --- |
| Molybdenum | ppm | 1   | --- | --- | --- |
| Nickel     | ppm | 0   | --- | --- | --- |
| Titanium   | ppm | <1  | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 1   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



#### Additives

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 140 | --- | --- | --- |
| Magnesium  | ppm | 10  | --- | --- | --- |
| Zinc       | ppm | 83  | --- | --- | --- |
| Phosphorus | ppm | 477 | --- | --- | --- |
| Barium     | ppm | 0   | --- | --- | --- |
| Boron      | ppm | <1  | --- | --- | --- |

#### Diagnosis

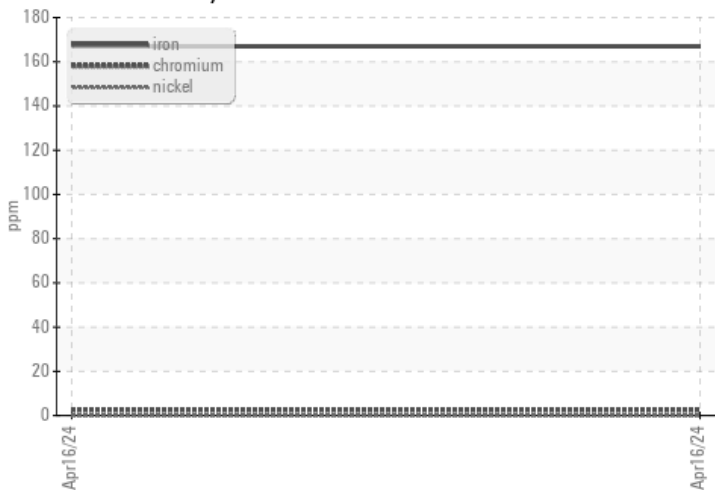
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: KINTRI  
 Unique No: 11031841  
 Signed: Don Baldrige  
 Report Date: 17 May 2024

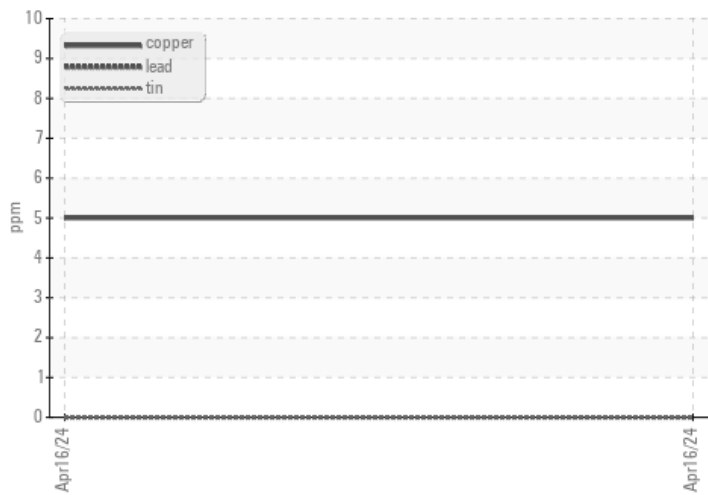


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C

