

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR716 015579-1423 - Right Final Drive

Sample No: LH0243360

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | LH0243360 | LH0207829 | LH0173919 | --- |
| Sample Date | 04 Sep 2023 | 19 Apr 2022 | 17 Aug 2020 | --- |
| Machine Hours | 0 | 540 | 408 | --- |
| Oil Hours | 0 | 0 | 408 | --- |
| Oil Changed | N/A | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 101 | 132 | 303 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|----|---|-----|
| Silicon | ppm | 1 | 5 | 3 | --- |
| Sodium | ppm | 2 | 2 | 3 | --- |
| Potassium | ppm | 3 | 31 | 0 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 19 | 36 | 97 | --- |
| Copper | ppm | 21 | 29 | 64 | --- |
| Lead | ppm | 0 | 0 | <1 | --- |
| Tin | ppm | 0 | <1 | 0 | --- |
| Aluminum | ppm | <1 | 1 | <1 | --- |
| Chromium | ppm | 0 | <1 | 2 | --- |
| Molybdenum | ppm | 0 | 1 | 0 | --- |
| Nickel | ppm | 0 | 0 | <1 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 0 | <1 | 2 | --- |
| Vanadium | ppm | <1 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 13 | 113 | 33 | --- |
| Magnesium | ppm | 0 | 20 | <1 | --- |
| Zinc | ppm | 0 | 55 | 23 | --- |
| Phosphorus | ppm | 1410 | 1457 | 991 | --- |
| Barium | ppm | 0 | 4 | 114 | --- |
| Boron | ppm | 262 | 335 | 3 | --- |

Diagnosis

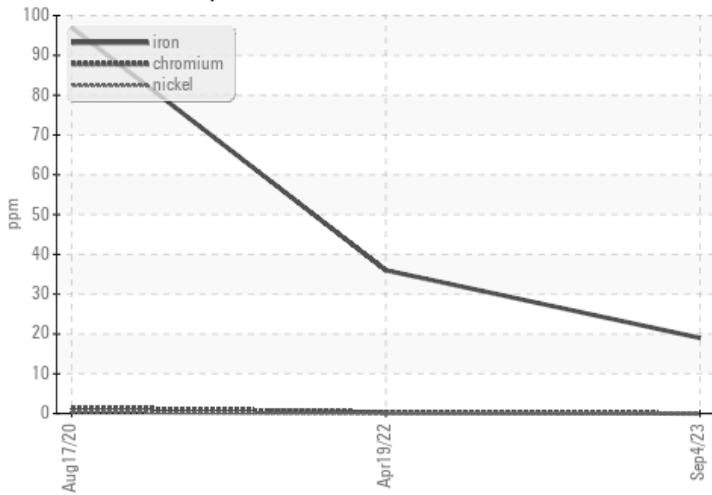
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10633790
Signed: Sean Felton
Report Date: 08 Sep 2023

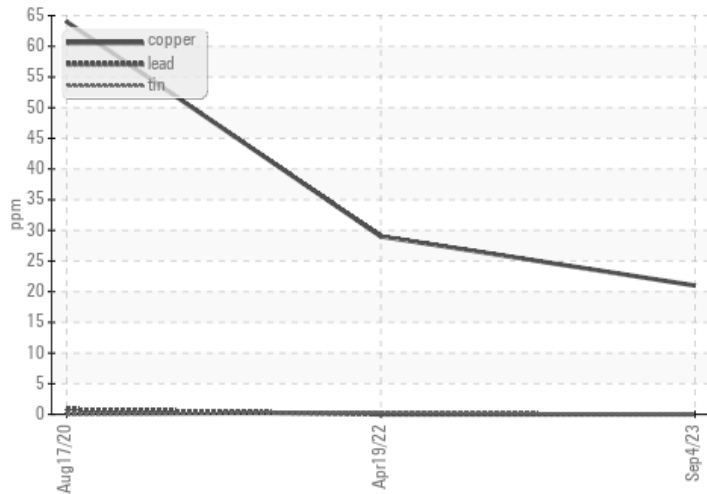


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

