

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 114790-1253 - Hydraulic System

Sample No: LH0185877

Oil Type: AW HYDRAULIC OIL ISO 46



DAVIS TRADING & SUPPLY LTD.
110 GRANT STREET
VANCOUVER, BC
CA V6A 2J6
Contact: Service Manager



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0185877 | LH0162103 | --- | --- |
| Sample Date | 17 Dec 2020 | 30 Jan 2020 | --- | --- |
| Machine Hours | 1856 | 570 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|--------|--------|-----|-----|
| Visc @ 40°C | cSt | ● 43.8 | ● 45.2 | --- | --- |
|-------------|-----|--------|--------|-----|-----|



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|----------|-----|-----|
| Water | % | ● 0.049 | ● 0.024 | --- | --- |
| Particles >4µm | | ● 74920 | ● 2026 | --- | --- |
| Particles >6µm | | ● 28613 | ● 296 | --- | --- |
| Particles >14µm | | ● 1384 | ● 40 | --- | --- |
| ISO 4406:1999 (c) | | 23/22/18 | 18/15/12 | --- | --- |
| Silicon | ppm | ● 1 | ● <1 | --- | --- |
| Sodium | ppm | ● 2 | ● 2 | --- | --- |
| Potassium | ppm | ● 2 | ● 2 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | ● 16 | ● 8 | --- | --- |
| Copper | ppm | ● 5 | ● 4 | --- | --- |
| Lead | ppm | ● 1 | ● <1 | --- | --- |
| Tin | ppm | ● 0 | ● 0 | --- | --- |
| Aluminum | ppm | ● <1 | ● <1 | --- | --- |
| Chromium | ppm | ● <1 | ● <1 | --- | --- |
| Molybdenum | ppm | ● 0 | ● 0 | --- | --- |
| Nickel | ppm | ● <1 | ● 0 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | <1 | 0 | --- | --- |
| Manganese | ppm | ● <1 | ● <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|--------|-----|-----|
| Calcium | ppm | ● 822 | ● 1163 | --- | --- |
| Magnesium | ppm | ● 4 | ● 5 | --- | --- |
| Zinc | ppm | ● 579 | ● 584 | --- | --- |
| Phosphorus | ppm | ● 473 | ● 508 | --- | --- |
| Barium | ppm | ● <1 | ● <1 | --- | --- |
| Boron | ppm | ● <1 | ● <1 | --- | --- |

T:
F:

Diagnosis

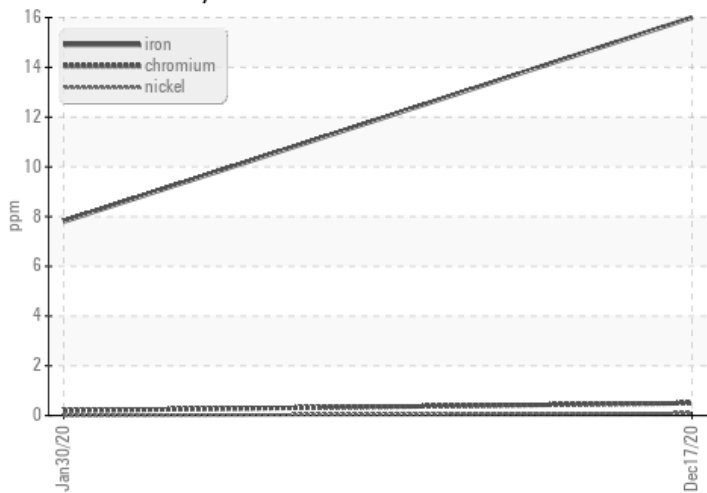
We advise that you check for the source of water entry. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >14µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Free water present. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: DAV110VAN
Unique No: 5150261
Signed: Kevin Marson
Report Date: 24 Dec 2020

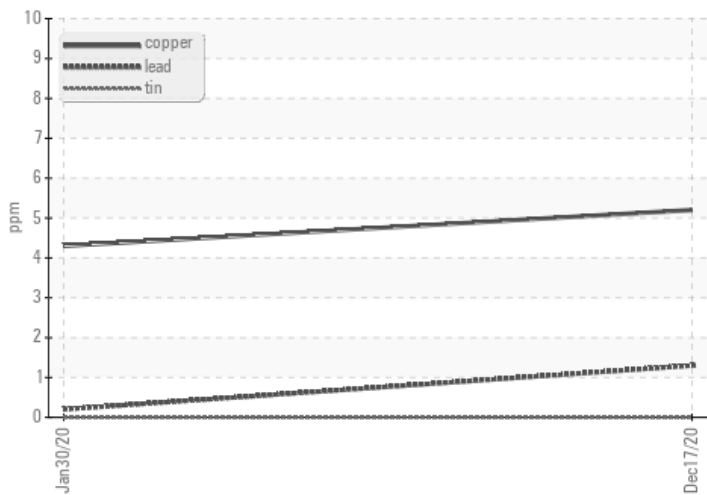


GRAPHS

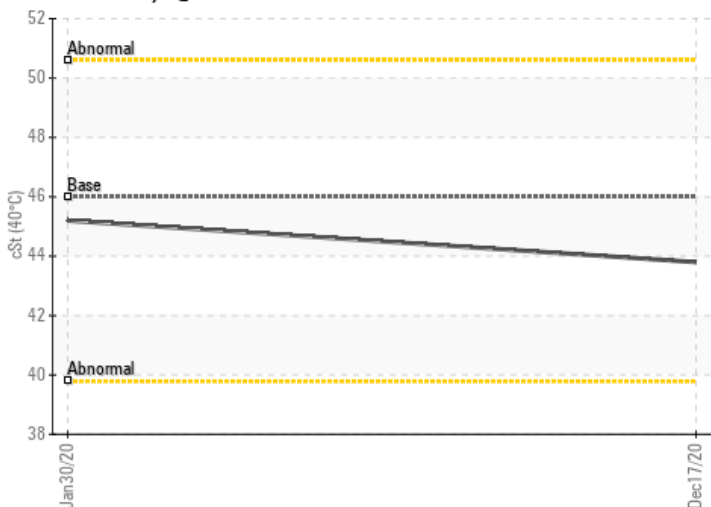
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

