CONSTRUCTION EQUIPMENT

[(375852)] LIEBHERR R920 054849-1705 - Hydraulic System

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

Sample No: LH0270472

Oil Type:

| D SAMPLE INFORMATION | | | | | | |
|-----------------------------|-------------|-------------|--|--|--|--|
| Sample Number | LH0270472 | LH0274676 | | | | |
| Sample Date | 15 Aug 2023 | 09 Aug 2023 | | | | |
| Machine Hours | 483 | 596 | | | | |
| Oil Hours | 0 | 0 | | | | |
| Oil Changed | N/A | Not Changd | | | | |
| Sample Status | SEVERE | NORMAL | | | | |
| OIL CONDITION | | | | | | |

0 46.3

Visc @ 40°C

ah.

cSt **0 45.5**

| Water | % | 0.041 | | | |
|-------------------|-----|-----------------|----------|--|--|
| Particles >4µm | | e 189135 | 844 | | |
| Particles >6µm | | 0 156990 | 0 150 | | |
| Particles >14µm | | 52386 | 20 | | |
| ISO 4406:1999 (c) | | 25/24/23 | 17/14/11 | | |
| Silicon | ppm | 04 | 01 | | |
| Sodium | ppm | 01 | 0 | | |
| Potassium | ppm | 3 | 0 | | |

| | R META | LS | | |
|------------|---------------|------------------|------|------|
| Iron | ppm | • 4 | 0 1 | |
| Copper | ppm | 07 | 0 2 | |
| Lead | ppm | ○ <1 | ○ <1 | |
| Tin | ppm | 0 () | 0 | |
| Aluminum | ppm | ○ <1 | ○ <1 | |
| Chromium | ppm | 0 🔘 | 0 | |
| Molybdenum | ppm | 0 🔘 | 0 | |
| Nickel | ppm | <mark></mark> <1 | ○ <1 | |
| Titanium | ppm | 0 | 0 | |
| Silver | ppm | 0 | 0 | |
| Manganese | ppm | 0 | 0 | |
| Vanadium | ppm | 0 | 0 | |

| ADDITIVES | | | | | | | |
|------------|-----|--------------|-------|--|--|--|--|
| Calcium | ppm | 0 810 | 0 194 | | | | |
| Magnesium | ppm | 04 | ○ <1 | | | | |
| Zinc | ppm | 685 | 831 | | | | |
| Phosphorus | ppm | 631 | 685 | | | | |
| Barium | ppm | ○ <1 | 0 | | | | |
| Boron | ppm | 01 | ○ <1 | | | | |



ROBERT FRASER DBA FRASER LANDSCAPING 498 NORTHLINE ROAD FENELON FALLS, ON CA KOM 1N0 Contact: Service Manager

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Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you follow the water drain-off procedure for this component. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: Unique No: Signed: Report Date: ROBKAW 5629246 Kevin Marson 18 Aug 2023





GRAPHS

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