

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22 157673-1525 - Hydraulic System

Sample No: LH0288059

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



ECOWASTE INDUSTRIES LTD.
 15111 WILLIAMS ROAD
 RICHMOND, BC
 CA V6W 1G9
 Contact: Service Manager

T: (604)277-1410
 F:



Sample Information

Sample Number	LH0288059	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	515	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 44.0	---	---	---
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Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 13633	---	---	---
Particles >6µm		● 3304	---	---	---
Particles >14µm		● 253	---	---	---
ISO 4406:1999 (c)		21/19/15	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---



Wear Metals

Iron	ppm	● 27	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	1364	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 693	---	---	---
Phosphorus	ppm	● 603	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: ECORIC
Unique No: 5775793
Signed: Kevin Marson
Report Date: 13 May 2024

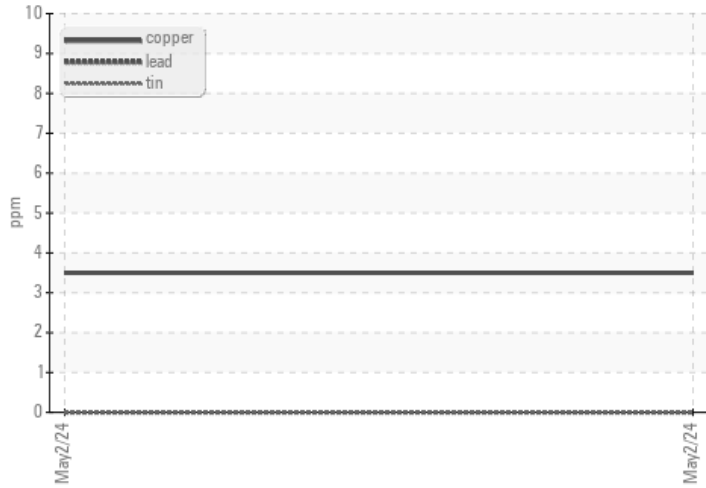


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

