

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-123497 - Hydraulic System

Sample No: LH0272910

Oil Type: PETRO CANADA ENVIRON MV 46



SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER

T:
 F:



SAMPLE INFORMATION

Sample Number	LH0272910	LH0258293	LH0212307	---
Sample Date	11 Jan 2024	16 Aug 2023	30 Dec 2021	---
Machine Hours	4554	3960	981	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	SEVERE	SEVERE	ABNORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	43.4	43.2	44.6	---
Acid Number (AN)	mg KOH/g	1.07	1.14	1.16	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		2224	---	66138	---
Particles >6µm		329	---	7088	---
Particles >14µm		20	---	165	---
ISO 4406:1999 (c)		18/16/11	---	23/20/15	---
Silicon	ppm	3	3	2	---
Sodium	ppm	1	3	0	---
Potassium	ppm	2	2	1	---

Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	129	125	26	---
Copper	ppm	12	11	44	---
Lead	ppm	3	3	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	<1	2	---
Chromium	ppm	2	1	<1	---
Molybdenum	ppm	<1	0	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	1	2	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	858	870	1329	---
Magnesium	ppm	32	5	6	---
Zinc	ppm	613	673	648	---
Phosphorus	ppm	502	527	547	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	1	---

Depot: SPASPALH
 Unique No: 10833949
 Signed: Jonathan Hester
 Report Date: 19 Jan 2024



GRAPHS

