CONSTRUCTION EQUIPMENT

46356 - Hydraulic System

Sample No: LH0284399

Sample Number

Sample Date

Oil Hours

Oil Changed

Sample Status

Machine Hours

Oil Type: **TOTAL BIOHYDRAN SE 46**

SAMPLE INFORMATION

LH0284399

31 Jan 2024

Changed

SEVERE

5001





Delsan - American Iron and Metal

2187 Montee Masson

Laval, QC CA H7B 0A6

Contact: MANNY MARQUES mmarques@delsan-aim.com

T: F:

OIL CONDITION

Visc @ 40°C **43.6**

Diagnosi:

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The oil change at the time of sampling has been noted. 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. We recommend you service the filters on this component. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on vour Sample Information Form (SIF). Resample in 30-45 days to monitor this situation. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

CONT	AMINATIO	ON			
Water	%	0.308	NEG	NEG	
Particles >4µm		224763	O 67621	97012	
Particles >6µm		<u> </u>	O 11921	4771	
Particles >14µm		18	O 451	O 15	
ISO 4406:1999 (c)		25/21/11	23/21/16	24/19/11	
Silicon	ppm	4	4	6	
Sodium	ppm	7	6	6	
Potassium	ppm	0	0 2	02	

LH

4402

0

03 May 2023

Not Changd

ABNORMAL

LH0250827

24 Feb 2023

Not Changd

ABNORMAL

4058

WEAR METALS PQ 0 0 0 Iron ppm 101 66 98 Copper ppm 2 2 2 Lead ppm <1 1 Tin ppm <1 1 Aluminum ppm 2 1 2 Chromium ppm 3 <1 1 Molybdenum ppm 0 0 0	
Iron ppm 101 66 98 Copper ppm 2 2 2 Lead ppm <1 1 Tin ppm <1 1 Aluminum ppm 2 1 2 Chromium ppm 3 <1 1	
Copper ppm 2 2 2 Lead ppm <1 <1 Tin ppm <1 <1 Aluminum ppm 2 1 2 Chromium ppm 3 <1 1	
Lead ppm Image: square	
Tin ppm Image: square of the content of	
Aluminum ppm 2 1 2 Chromium ppm 3 <1	
Chromium ppm 3 ○ <1 1	
Molybdenum ppm ○ 0 0	
Nickel ppm	
Titanium ppm 0 0 <1	
Silver ppm 0 0	
Manganese ppm	
Vanadium ppm 0 0	

ADD	ITIVES				
Calcium	ppm	8	0 8	22	
Magnesium	ppm	2	2	3	
Zinc	ppm	64	47	71	
Phosphorus	ppm	315	○ 317	267	
Barium	ppm	 <1	0	<1	
Boron	ppm	3	1	2	

Depot: DEL782MON **Unique No:** 5733805 Signed: Kevin Marson **Report Date:** 21 Feb 2024

CONSTRUCTION EQUIPMENT





GRAPHS

