LIEBHERR

CONSTRUCTION EQUIPMENT

054897-1650 - Hydraulic System

Sample No: LH0292410

Oil Type: TOTAL BIOHYDRAN SE 46

5						
Sam	ple Infor	mation				
Sample Number		LH0292410	LH0243057			
Sample Date		18 Jun 2024	17 Jan 2023			
Machine Hours		1937	641			
Oil Hours		0	0			
Oil Changed		Changed	Not Changd			
Sample Status		SEVERE	NORMAL			
Oil Condition						
Visc @ 40°C	cSt	45.6	45.9			

Conto	ımination			
Water	%	NEG	NEG	
Particles >4µm		32628	○ 6038	
Particles >6µm		0 10901	O 213	
Particles >14µm		1409	O 12	
ISO 4406:1999 (c)		22/21/18	20/15/11	
Silicon	ppm	4	O 2	
Sodium	ppm	4	O 1	
Potassium	ppm	1	0	

101				
Wear	Metals			
PQ		2		
Iron	ppm	140	○ 34	
Copper	ppm	4	O 2	
Lead	ppm	2	O <1	
Tin	ppm	0 <1	O <1	
Aluminum	ppm	2	O 1	
Chromium	ppm	7	3	
Molybdenum	ppm	0	0	
Nickel	ppm	() <1	0	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	2	<1	
Vanadium	ppm	0	0	

Additives						
Calcium	ppm	17	5			
Magnesium	ppm	1	<1			
Zinc	ppm	53	29			
Phosphorus	ppm	246	243			
Barium	ppm	0	0			
Boron	ppm	1	<1			



Delsan - American Iron and Metal 2187 Montee Masson Laval, QC CA H7B 0A6

Contact: MANNY MARQUES mmarques@delsan-aim.com

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Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

 Depot:
 DEL782MON

 Unique No:
 5801724

 Signed:
 Kevin Marson

 Report Date:
 27 Jun 2024

CONSTRUCTION EQUIPMENT





Graphs

