

042296-1491 - Hydraulic System

Sample No: LH0261397

Oil Type: AW HYDRAULIC OIL ISO 46

SAMPLE INFORMATION

Sample Number	LH0261397	LH0251737	LH	LH		
Sample Date	26 Jun 2023	15 Feb 2023	16 Jul 2021	18 Mar 2021		
Machine Hours	7046	6563	0	0		
Oil Hours	0	0	0	0		
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd		
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL		
Visc @ 40°C cSt	43.3	0 44.0	● 43.6	0 42.2		
11						

Particles >4µm		5835	3174	0 1727	0 100191	
Particles >6µm		0 1526	652	391	0 14930	
Particles >14µm		0 109	0 46	21	0 147	
ISO 4406:1999 (c)		20/18/14	19/17/13	18/16/12	24/21/14	
Silicon	ppm	3	3	3	○ 5	
Sodium	ppm	02	02	2	2	
Potassium	nom	0 -1	$\bigcirc <1$	\bigcirc <1	0 1	

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WEA	R META	LS			
PQ		0 (0	0	07
Iron	ppm	e 133	0 114	94	0 118
Copper	ppm	07	07	5	07
Lead	ppm	3	03	01	01
Tin	ppm	○ <1	○ <1	○ <1	◯ <1
Aluminum	ppm	01	01	○ <1	01
Chromium	ppm	0 12	0 11	2	2
Molybdenum	ppm	01	1	2	3
Nickel	ppm	0 🔘	0	◯ <1	○ <1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	02	2	2	2
Vanadium	ppm	<1	0	<1	<1

Calcium	ppm	363	393	469	697
Magnesium	ppm	○ 5	5	6	9
Zinc	ppm	0 354	358	446	670
Phosphorus	ppm	423	444	483	570
Barium	ppm	0	0	0	0
Boron	ppm	○ 4	3	5	5





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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:DEL782MONUnique No:5604433Signed:Kevin MarsonReport Date:30 Jun 2023

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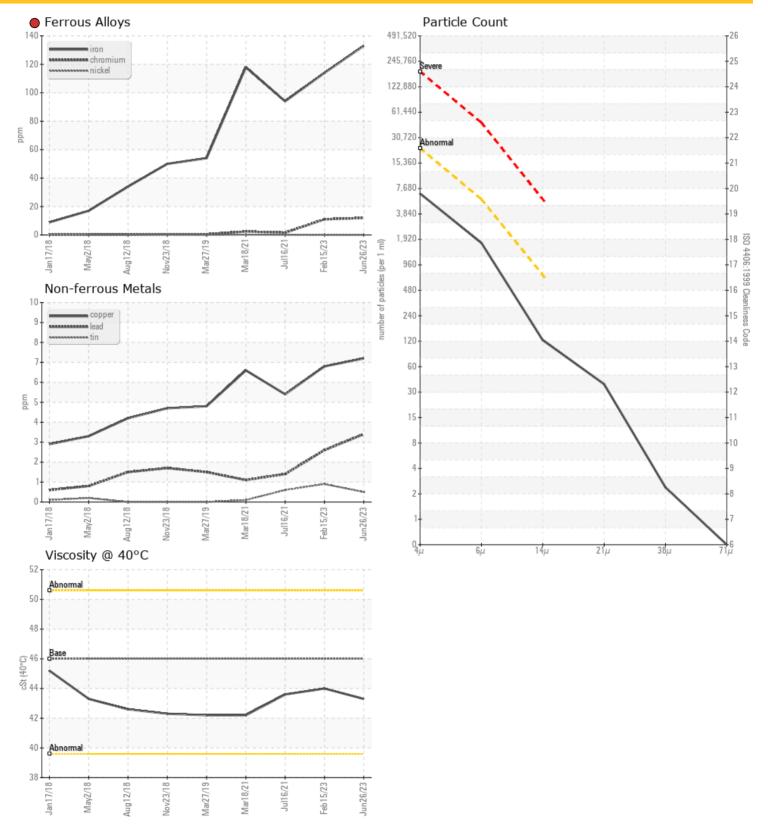
Submitted By: Isabelle Langlois





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