



61282 - Hydraulic System

Sample No: LH0286398

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Oil Type: AW HYDRAULIC OIL ISO 22

U Sam	ole Informa	ition		
Sample Number		LH0286398	 	
Sample Date		06 May 2024	 	
Machine Hours		23000	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		SEVERE	 	
Oil Ca	ondition			
Visc @ 40°C	cSt	0 23.1	 	

Visc @ 40°C cSt

Conta	mination			
Water	%	NEG	 	
Particles >4µm		0 145690	 	
Particles >6µm		0 74459	 	
Particles >14µm		0 4555	 	
ISO 4406:1999 (c)		24/23/19	 	
Silicon	ppm	02	 	
Sodium	ppm	02	 	
Potassium	ppm	○ <1	 	

\bigcirc Wear Metals 0 10 Iron ppm Copper ppm 06 Lead 02 ppm Tin ppm 0 Aluminum ppm 0 Chromium 05 ppm Molybdenum 0 ppm Nickel ○ <1 ppm Titanium 0 ppm Silver ppm 0 Manganese 0 <1 ppm Vanadium 0 ppm

Additives

Calcium	ppm	O 133	 	
Magnesium	ppm	3	 	
Zinc	ppm	0 327	 	
Phosphorus	ppm	0 282	 	
Barium	ppm	04	 	
Boron	ppm	0 2	 	

LIEBHERR CANADA LTD. 10374 267 ST. ACHESON, AB CA T7X 6A2 Contact: Dustin Fluet dustin.fluet@liebherr.com T: (780)962-6088 F: (780)962-6799

Diagnosis

We advise that you check all areas where contaminants can enter the system. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. 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. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 22. Please confirm.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot:LIESPRUnique No:5775038Signed:Kevin MarsonReport Date:08 May 2024Contact/Location: Dustin Fluet - LIESPR

LEBHERR CONSTRUCTION EQUIPMENT



Graphs

