



[TECHNICORE] 116005 - Hydraulic System

29.1

Sample No: LH0270486

Oil Type: LIEBHERR HYDRAULIC 37

SAMPLE INFORMATION

Sample Number	LH0270486	 	
Sample Date	27 Aug 2023	 	
Machine Hours	7090	 	
Oil Hours	0	 	
Oil Changed	Not Changd	 	
Sample Status	NORMAL	 	

OIL CONDITION

Visc @ 40°C

cSt

CONTAMINATION

Particles >4µm		4219						
Particles >6µm		0 853						
Particles >14µm		66						
ISO 4406:1999 (c)		19/17/13					-	
Silicon	ppm	01						
Sodium	ppm	<mark>○</mark> <1						
Potassium	ppm	○ <1						

WEAR METALS

Iron	ppm	03	 	
Copper	ppm	0 9	 	
Lead	ppm	01	 	
Tin	ppm	<mark></mark> <1	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	○ <1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	<1	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

	ITIVES			
Calcium	ppm	95	 	
Magnesium	ppm	0 2	 	
Zinc	ppm	0 320	 	
Phosphorus	ppm	280	 	
Barium	ppm	○ <1	 	
Boron	ppm	0 2	 	

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Joseph Gillis joseph.gillis@liebherr.com T: F: (905)319-6622

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR HYDRAULIC 37, however, a fluid match indicates that this fluid is ISO 32 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS Unique No: 5656243 Kevin Marson Signed: **Report Date:** 06 Oct 2023

Report Id: LIEMIS [WCAMIS] 02587177 (Generated: 10/06/2023 12:50:54) Rev: 1

Contact/Location: Joseph Gillis - LIEMIS

CONSTRUCTION EQUIPMENT



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