LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0278784

Oil Type: PETRO CANADA HYDREX AW 46

SAMPLEIN	FORMATION			
Sample Number	LH0278784	LH0251614	LH0192746	
Sample Date	05 Feb 2024	06 Mar 2023	10 Sep 2021	
Machine Hours	3117	2056	495	
Oil Hours	0	0	0	
Oil Changed	Not Changd	N/A	Not Changd	
Sample Status	ABNORMAL	ABNORMAL	NORMAL	
A				

EARTHLINE FOUNDATIONS AND SHORING LTD 160 ADMIRAL BLVD MISSISSAUGA, ON CA L5T 2N6 Contact: Service Manager

T: F:

Sample Status		ABNORMAL	ABNORMAL	NORMAL	
OILCO	NDITION				
Visc @ 40°C	cSt	34.0	32.9	○ 35.1	

Diagnosis

Resample at the next service interval to monitor. 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

CONTAMINATION					
Water	%	NEG	NEG	NEG	
Particles >4µm		1688	O 963	O 2112	
Particles >6µm		371	O 218	O 194	
Particles >14µm		23	O 15	7	
ISO 4406:1999 (c)		18/16/12	17/15/11	18/15/10	
Silicon	ppm	1	O 2	O 1	
Sodium	ppm	() <1	O <1	O 0	
Potassium	ppm	0 <1	O <1	O <1	

WEA	R META	LS			
Iron	ppm	3	O 2	O <1	
Copper	ppm	5	O 5	4	
Lead	ppm	2	O 1	O 1	
Tin	ppm	0	O 0	O 0	
Aluminum	ppm	 <1	O <1	O 0	
Chromium	ppm	0	O 0	O 0	
Molybdenum	ppm	0	0	O 0	
Nickel	ppm	0	O 0	<1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	4	
Manganese	ppm	0	0	O 0	
Vanadium	ppm	0	0	0	

Variadium	ppiii	•	U	O .	
ADI	DITIVES				
Calcium	ppm	76	77	O 75	
Magnesium	ppm	6	O 5	5	
Zinc	ppm	307	○ 311	313	
Phosphorus	ppm	250	O 275	278	
Barium	ppm	0	O 0	0	
Boron	mag	0 <1	0 <1	0 < 1	

Depot:EARMISUnique No:5723146Signed:Kevin MarsonReport Date:08 Feb 2024

CONSTRUCTION EQUIPMENT





GRAPHS

