

[HAMMERSTONE] 16012 - Hydraulic System

PETRO CANADA HYDREX EXTREME

Sample No: LH0265046

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0265	D46 LH0238071	LH0209775			
Sample Date	11 Jul 2	023 21 Oct 2022	28 Aug 2021			
Machine Hours	14669	13470	9513			
Oil Hours	0	0	0			
Oil Changed	N/A	N/A	Not Changd			
Sample Status	NORMA	L ABNORMAI	NORMAL			
Visc @ 40°C	St 🔘 30.5	0 26.1	25.6			
11 A						

Particles >4µm		19130	2394	0 4492		
Particles >6µm		0 2501	0 405	0 771		
Particles >14µm		0 81	36	0 70		
ISO 4406:1999 (c)		21/19/14	18/16/12	19/17/13		
Silicon	ppm	06	8	6		
Sodium	ppm	0 11	04	0 4		
Potassium	maa	• 4	0 <1	01		

WEAR METALS

Iron	ppm	06	○ 5	0 4	
Copper	ppm	0 4	09	3	
Lead	ppm	○ <1	○ <1	○ <1	
Tin	ppm	0 (0	○ <1	
Aluminum	ppm	0 2	0 2	01	
Chromium	ppm	0 🔘	0	○ <1	
Molybdenum	ppm	○ <1	○ <1	<1	
Nickel	ppm	0 (<1	<1	
Titanium	ppm	<1	<1	0	
Silver	ppm	0	0	<1	
Manganese	ppm	○ <1	○ <1	<1	
Vanadium	ppm	0	0	0	

	TIVES				
Calcium	ppm	2945	2361	2409	
Magnesium	ppm	1 3	09	10	
Zinc	ppm	1161	904	995	
Phosphorus	ppm	1050	965	960	
Barium	ppm	0	0	0	
Boron	ppm	02	0 2	2	





Liebherr-Canada Ltd.

Fort McKay Industrial Park, Lot No. 12 and 13 Fort McMurray, AB CA T9H 5N3 Contact: Corey Ekroth corey.ekroth@liebherr.com T: (780)791-2967 F:

Diagnosis

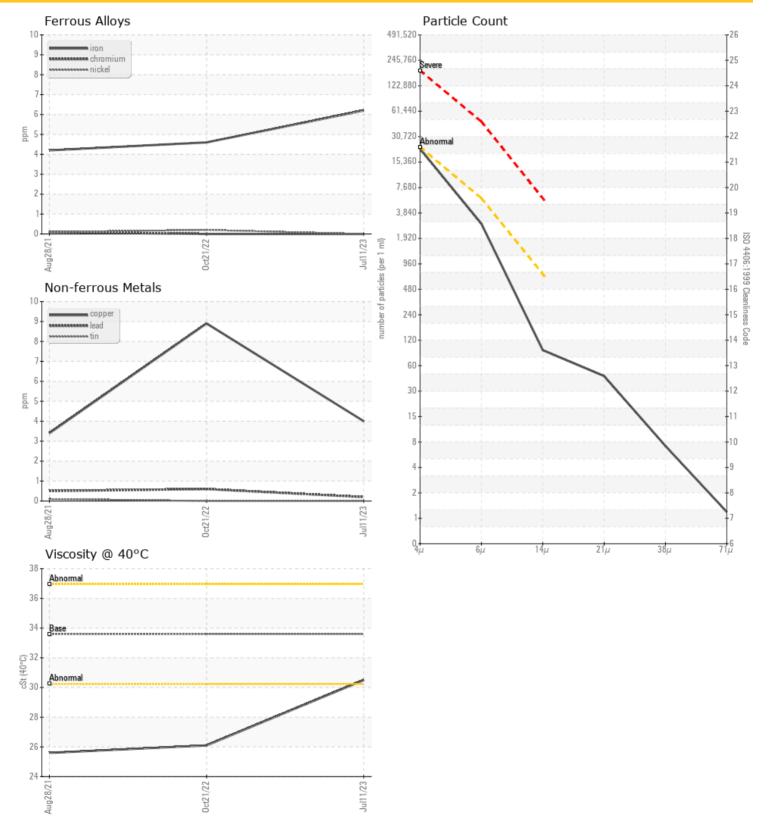
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEFTM Unique No: 5607444 Signed: Kevin Marson **Report Date:** 19 Jul 2023





GRAPHS



Report Id: LIEFTM [WCAMIS] 02570398 (Generated: 07/19/2023 13:17:04) Rev: 1