CONSTRUCTION EQUIPMENT

LIEBHERR R934 030095 - Hydraulic System

KENDALL FOUR SEASONS AW ISO 46

Sample No: LH0178219

Oil Type:

SAMPLE INFORMATION

Sample Number		LH0178219	LH0235019	LH0186971		
Sample Date		28 Sep 2023	27 Oct 2022	20 Apr 2021		
Machine Hours		18600	17569	15200		
Oil Hours		3400	2369	5000		
Oil Changed		Not Changd	Not Changd	Changed		
Sample Status		NORMAL	NORMAL	SEVERE		
Visc @ 40°C c	St	0 44.4	0 44.9	43.2		
Particles >4µm		0 13546	0 14412	65382		

Particles >4µm		0 13546	0 14412	65382	
Particles >6µm		2609	3207	21861	
Particles >14µm		O 120	0 193	2022	
ISO 4406:1999 (c)		21/19/14	21/19/15	23/22/18	
Silicon	ppm	○ <1	○ <1	○ <1	
Sodium	ppm	○ <1	0	○ <1	
Potassium	ppm	○ <1	0	○ <1	

WEAR METALS

0

		13			
Iron	ppm	07	6	0 11	
Copper	ppm	0 2	01	03	
Lead	ppm	○ <1	0	◯ <1	
Tin	ppm	0 🔘	0	0	
Aluminum	ppm	0 🔘	○ <1	◯ <1	
Chromium	ppm	0 9	07	0 15	
Molybdenum	ppm	0 🔘	0	◯ <1	
Nickel	ppm	○ <1	○ <1	<1	
Titanium	ppm	0	0	0	
Silver	ppm	<1	0	<1	
Manganese	ppm	0	<1	<1	
Vanadium	ppm	0	0	0	

ADDITIVES					
Calcium	ppm	0 57	58	83	
Magnesium	ppm	01	○ <1	2	
Zinc	ppm	0 418	399	0 460	
Phosphorus	ppm	0 334	364	0 354	
Barium	ppm	○ <1	0	0	
Boron	ppm	<mark></mark> <1	0	01	





DOMINION NICKEL ALLOYS LTD.

834 APPLEBY LINE BURLINGTON, ON CA L7L 2Y7 Contact: Trevor Taylor trevor@domnickel.com T: (905)639-9939 F: (905)639-3788

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. The condition of the oil is acceptable for the time in service.

Depot:	DOMBUR
Unique No:	5681954
Signed:	Wes Davis
Report Date:	17 Nov 2023

LIEBHERR CONSTRUCTION EQUIPMENT



GRAPHS

