



40027 - Port Hydraulic System

Sample No: LH0247111

Oil Type: AW HYDRAULIC OIL ISO 46

DOMINION NICKEL ALLOYS LTD.

834 APPLEBY LINE BURLINGTON, ON CA L7L 2Y7

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Diagnosis

We advise that you check for visible metal particles in the oil. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Light concentration of visible metal present. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.



Sample Number	LH0247111	LH0224447	LH0131514	
Sample Date	14 Jun 2023	07 Jun 2022	07 Jul 2020	
Machine Hours	13749	12360	9084	
Oil Hours	3672	2098	4084	
Oil Changed	Not Changd	Not Changd	Changed	
Sample Status	ABNORMAL	NORMAL	ABNORMAL	



Visc @ 40°C

OIL CONDITION



CONTAMINATION

						p.
Particles >4µm		8921	933	6415		178
Particles >6µm		653	32	423		1
Particles >14μm	ı	16	3	● 30		Q
ISO 4406:1999	(c)	20/17/11	17/12/9	20/16/12		
Silicon	ppm	0 <1	 <1	0 1		
Sodium	ppm	1	O <1	01	244	10
Potassium	ppm	0 <1	O <1	0 <1		



WEAR METALS

Iron	ppm	7	8	10	
Copper	ppm	3	0 4	<u> </u>	V 1
Lead	ppm	0 <1	O <1	0 <1	
Tin	ppm	0	0	0	7
Aluminum	ppm	0 <1	O <1	0 <1	
Chromium	ppm	7	9	<u> </u>	
Molybdenum	ppm	0 <1	0	0 <1	
Nickel	ppm	0	<1	<1	
Titanium	ppm	0	<1	0	
Silver	ppm	0	0	<1	
Manganese	ppm	0 <1	O <1	0 <1	
Vanadium	ppm	0	0	0	*



ADDITIVES

Calcium	ppm	78	99	186	
Magnesium	ppm	2	2	2	
Zinc	ppm	442	442	516	
Phosphorus	ppm	● 379	364	413	
Barium	ppm	• 0	0	0	
Boron	ppm	1	O <1	01	
	- ' '		O <1	0 1	

Depot:DOMBURUnique No:5607455Signed:Kevin MarsonReport Date:19 Jul 2023

Submitted By: Trevor Taylor

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CONSTRUCTION EQUIPMENT





GRAPHS



