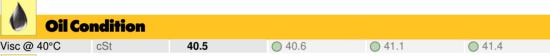
CONSTRUCTION EQUIPMENT



Sample No: LH0289409 Oil Type: {unknown}

5					
Sample Information					
Sample Number		LH0289409	LH0286548	LH0278633	LH0277774
Sample Date		17 Jun 2024	19 Mar 2024	17 Jan 2024	20 Nov 2023
Machine Hours		10161	9241	8647	8180
Oil Hours		0	0	0	0
Oil Changed		Changed	Not Changd	Not Changd	Not Changd
Sample Status		SEVERE	SEVERE	SEVERE	SEVERE





Conto	ımination				
Water	%	0.137	0.016	NEG	NEG
Particles >4µm		71540	O 6312	○ 3341	O 1666
Particles >6µm		33140	O 1698	○ 876	448
Particles >14µm		5864	O 110	58	2 3
ISO 4406:1999 (c)		23/22/20	20/18/14	19/17/13	18/16/12
Silicon	ppm	2	O <1	O 2	O 2
Sodium	ppm	6	O 2	O 2	O 2
Potassium	maa	7	0 <1	0 1	0

O 0
123
4
O <1
0
0 <1
O 1
0
0
0
<1
2
0

Additives					
Calcium	ppm	387	417	415	434
Magnesium	ppm	2	2	3	2
Zinc	ppm	792	802	779	806
Phosphorus	ppm	648	632	635	634
Barium	ppm	0	0	0	0
Boron	ppm	2	0	0	<1



COMBINED METAL INDUSTRIES 454 DOBBIE DRIVE CAMBRIDGE, ON **CA N1T 1S7**

Contact: Service Manager

T	:
F	:

Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: COM454CAM Unique No: 5800170 Signed: Kevin Marson **Report Date:** 21 Jun 2024

LIEBHERR

CONSTRUCTION EQUIPMENT





Graphs

