# LIEBHERR

# CONSTRUCTION EQUIPMENT

# 035301-1375 - Left Final Drive

Sample No: LH0274432

Manganese

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

ppm

ppm

mqq

ppm

ppm

ppm

ppm

ppm

**ADDITIVES** 

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAM	PLE INFO	<b>PRMATION</b>			
Sample Number		LH0274432	LH0247331	LH	LH
Sample Date		15 Aug 2023	15 Jan 2023	19 Jan 2022	31 Mar 2021
Machine Hours		13957	13004	11963	10762
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	SEVERE	NORMAL	NORMAL
<b>A</b>					
OILC	ONDITIO	ON			
visc @ 40°C	cSt	<b>102</b>	O 94.3	O 96.2	98.0
-4				9	
CON		TIAN			
CON	<b>TAMINA</b>	IION			
Silicon	ppm	<b>755</b>	<b>231</b>	O 299	O 132
Sodium	ppm	<b>23</b>	0 8	O 10	<b>5</b>
Potassium	ppm	<b>42</b>	<b>1</b> 3	<b>17</b>	0 8
WEA	R META	LS			
PQ		<b>382</b>	O 51	O 116	O 31
Iron	ppm	O 2417	O 1498	O 1250	1061
Copper	ppm	<b>55</b>	O 37	O 32	O 31
_ead	ppm	<b>0</b> 4	0 1	02	0 1
Tin	ppm	<b>0</b> 1	0 1	0 1	O 1
Aluminum	ppm	O 176	<u>0</u> 50	<b>60</b>	33
Chromium	ppm	O 37	O 23	O 18	11
Molybdenum	ppm	<b>3</b>	0 2	02	O 1
Nickel	ppm	O 5	03	3	2
Titanium	ppm	O 12	3	4	2
Silver	ppm	0	0	<1	<1
	1-1-	-			

395

**66** 

26

 $\bigcirc$  0

258

1298

468

80

**1309** 

23

 $\bigcirc$  0

241

**154** 

20

1232

**190** 

 $\bigcirc$  0



American Iron and Metal 10 760A HENRI BOURASSA EST MONTREAL, QC CA H1C 1S9 Contact: M. Couturier mcouturier@delsan-aim.com T: (514)703-7024 F:

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for topup/fill. We recommend an early resample to monitor this condition.Chromium and iron and titanium ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:AIMMONUnique No:5629263Signed:Kevin MarsonReport Date:17 Aug 2023

27

1416

209

**38** 

**2** 

**217** 

**1206** 

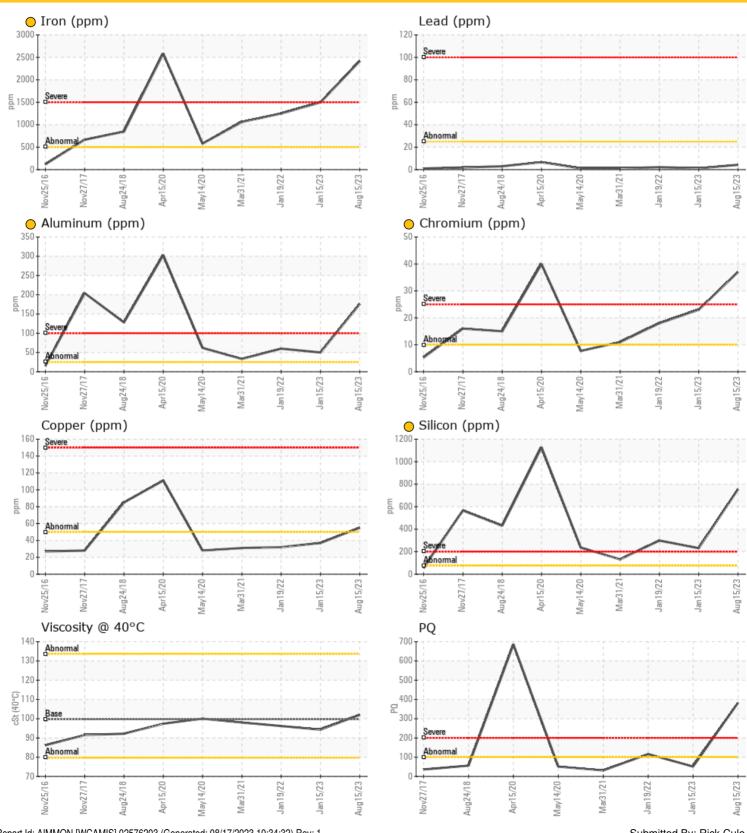
Submitted By: Rick Cule

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## **GRAPHS**



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Submitted By: Rick Cule