LIEBHERR

CONSTRUCTION EQUIPMENT



[[577894]] LIEBHERR R934CEW 036784-027 - Left Planetar

Sample No: LH0269708

Oil Type: GEAR OIL SAE 90

J SAM	DLF INE	ORMATION			
	PEE IIVE		1110104010	1110104774	1110104770
Sample Number		LH0269708	LH0124812	LH0104774	LH0104750
Sample Date		08 Nov 2023	15 Feb 2018	06 Sep 2016	12 May 2016
Machine Hours		5342	7813	4957	4368
Oil Hours		0	0	0	0
Oil Changed		N/A	Changed	Changed	Changed
Sample Status		ABNORMAL	SEVERE	ABNORMAL	ABNORMAL
OIL	ONDITION	ON			
Visc @ 40°C	cSt	97.6	<u> </u>	92.5	83.8
-1					
CON	TAMINA	ATION			
			0.007		
Water	%		0.607		
Silicon	ppm	268	3350	O 270	0 702
Sodium	ppm	8	O 72	0 8	O 16
Potassium	ppm	11	O 134	O 11	3 4
(O)					
WEA	R META	LS			
PQ		104	1406		O 847
Iron	ppm	2117	7484	O 1072	O 1571
Copper	ppm	40	268	O 55	O 92
Lead	ppm	2	O 14	O 2	5
Tin	ppm	01	1 9	0 2	O 5
Aluminum	ppm	37	O 495	O 39	O 122
Chromium	ppm	24	0 121	O 17	O 27
Molybdenum	ppm	2	O 10	0 1	0 2
Nickel	ppm	0 4	2 1	0 2	O 4
Titanium	ppm	2	0 34	3	8
Silver	ppm	- <1	<1	<1	0
Manganese	ppm	19	0 80	O 10	O 14
Vanadium	ppm	0	2	<1	<1
	ppiii	· ·	_		~ 1
ADD					
	ITIVES				
Calcium	ppm	78	850	373	594
Magnesium	ppm	11	<u>0</u> 102	10	O 27
Zinc	ppm	37	O 143	O 168	266
Phosphorus	ppm	1254	O 1082	O 1270	O 1183

02

260

02

6



RICHMOND STEEL RECYCLING

11760 MITCHELL ROAD RICHMOND, BC CA V6V 1V8

Contact: Aaron Kaetler AKaetler@richmondsteel.ca

T:

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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: RIC117RIC
Unique No: 5672726
Signed: Bill Quesnel
Report Date: 11 Nov 2023

1

105

ppm

ppm

Barium

Boron

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GRAPHS

