

LIEBHERR

CONSTRUCTION EQUIPMENT



041151-1148 - Left Final Drive

Sample No: LH

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

Sample Number	LH	LH0242432	LH0133210	LH0133210
Sample Date	21 Nov 2023	04 Nov 2022	18 Oct 2018	18 Oct 2018
Machine Hours	0	8193	4007	4007
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

Delsan - American Iron and Metal
 2187 Montee Masson
 Laval, QC
 CA H7B 0A6
 Contact: MANNY MARQUES
 mmarques@delsan-aim.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	162	95.6	98.6	185.3
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	70	49	140	8
Sodium	ppm	4	3	7	3
Potassium	ppm	4	4	18	0



WEAR METALS

PQ		---	60	---	---
Iron	ppm	208	524	268	81
Copper	ppm	<1	<1	<1	14
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	14	16	46	1
Chromium	ppm	2	7	3	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	1	4	1	<1
Titanium	ppm	<1	1	2	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	8	2	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	107	90	64	39
Magnesium	ppm	17	25	11	0
Zinc	ppm	5	18	12	57
Phosphorus	ppm	2154	1308	1256	838
Barium	ppm	<1	0	<1	0
Boron	ppm	34	233	277	122

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: DEL782MON
 Unique No: 5683285
 Signed: Kevin Marson
 Report Date: 22 Nov 2023



GRAPHS

