

LIEBHERR

CONSTRUCTION EQUIPMENT



054454-194 - Front Right Wheel Hub

Sample No: LHMC123905

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LHMC123905	LHMC123421	LHMC96967	LHMC73502
Sample Date	09 Jan 2020	09 Jan 2020	26 Apr 2018	16 May 2016
Machine Hours	3409	3409	2587	986
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

UNITED STATES GYPSUM
 301 RILEY RD
 EAST CHICAGO, IN
 US 43612
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	145	133	139.5	174.1

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	2
Sodium	ppm	1	<1	1	2
Potassium	ppm	2	1	8	4

Diagnosis

Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	13	24	10	26
Copper	ppm	6	2	4	8
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	6	5	6	5
Magnesium	ppm	0	0	<1	0
Zinc	ppm	6	4	6	16
Phosphorus	ppm	1847	1782	1770	954
Barium	ppm	14	19	12	256
Boron	ppm	266	254	225	16

Depot: UNIEASLH
 Unique No: 8883924
 Signed: Don Baldrige
 Report Date: 16 Jan 2020



GRAPHS

