

LIEBHERR

CONSTRUCTION EQUIPMENT



[[JSG]] 054454-194 - Front Left Wheel Hub

Sample No: LHMC96968
 Oil Type: LIEBHERR 90LS



SAMPLE INFORMATION

Sample Number	LHMC96968	LHMC97119	LH03741340	---
Sample Date	26 Apr 2018	16 May 2016	27 Apr 2015	---
Machine Hours	2587	986	595	---
Oil Hours	0	0	595	---
Oil Changed	Not Chngd	N/A	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

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



OIL CONDITION

Visc @ 40°C	cSt	132.1	185.6	27.52	---
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T:
 F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	<1	1	<1	---
Sodium	ppm	1	3	3	---
Potassium	ppm	4	3	1	---

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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	17	15	10	---
Copper	ppm	<1	4	2	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	1	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	4	0	---
Manganese	ppm	<1	1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	4	5	5	---
Magnesium	ppm	0	1	1	---
Zinc	ppm	4	12	8	---
Phosphorus	ppm	1638	1037	1067	---
Barium	ppm	20	275	315	---
Boron	ppm	213	<1	2	---

Depot: UNIEASLH
 Unique No: 8187557
 Signed: Wes Davis
 Report Date: 04 May 2018



GRAPHS

