

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 025731-460 - Front Differential

Sample No: LHMC89112

Oil Type: BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LHMC89112	LHMC87128	LHMC74413	LHMC71665
Sample Date	13 Feb 2014	11 Dec 2013	09 Sep 2013	20 Jun 2013
Machine Hours	500	5917	5291	4716
Oil Hours	500	626	1000	687
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE  
NEWPORT NEWS, VA  
US 23607

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#### OIL CONDITION

Visc @ 40°C	cSt	183.0	183.6	172.2	171.9
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#### CONTAMINATION

Silicon	ppm	12	13	8	3
Sodium	ppm	0	0	<1	<1
Potassium	ppm	<1	<1	4	0



#### WEAR METALS

Iron	ppm	215	224	274	205
Copper	ppm	5	5	4	5
Lead	ppm	<1	<1	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	4	2
Chromium	ppm	5	6	4	1
Molybdenum	ppm	20	23	34	26
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	2	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	12	16	38	30
Magnesium	ppm	0	0	5	2
Zinc	ppm	9	13	34	20
Phosphorus	ppm	1321	1377	1278	1306
Barium	ppm	0	0	0	0
Boron	ppm	4	4	12	10

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS

Unique No: 6545497

Signed: Wes Davis

Report Date: 04 Mar 2014



### GRAPHS

