# CONSTRUCTION EQUIPMENT

### LIEBHERR L538 1559-58274 - Rear Differential

Sample No: LH0253892

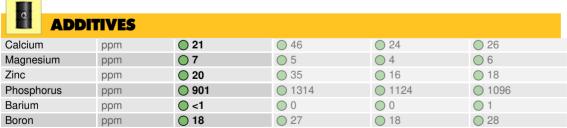
Oil Type: GEAR OIL SAE 80W90

## **SAMPLE INFORMATION**

Sample Number	LH0253892	LH0236496	LH0220653	LH0220591
Sample Date	02 Aug 2023	15 Mar 2023	01 Aug 2022	23 May 2022
Machine Hours	5816	5998	4096	3630
Oil Hours	0	1000	1000	500
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL
OIL CONDITION				
Visc @ 40°C cSt	<b>146</b>	0 163	0 153	0 152
<b>*</b>				
		0 163	0 153	0 152

CONTAMINATION					
Silicon	ppm	06	04	01	2
Sodium	ppm	0 🔘	01	3	○ <1
Potassium	ppm	<b>○</b> <1	02	0	01

Iron ppm 116 58 46 57   Copper ppm <1	ä				
Copper ppm <1	WEAP	EAR METALS			
Lead ppm 0 0 0 0 0   Tin ppm 0 0 0 0 0 0   Aluminum ppm 0 0 1 0 0   Chromium ppm <1 0 1 1 0	n	ppm 🔘 116	◯ 58	0 46	57
Tin ppm 0 0 0 0 0   Aluminum ppm 0 0 <1	pper	ppm 🔘 <1	0	◯ <1	○ <1
Aluminum ppm 0 <1	ad	ppm <b>0</b>	0	0	0
Chromium ppm Q <1	ı	ppm <b>O</b>	0	0	0
	uminum	ppm 🔘 <b>0</b>	○ <1	◯ <1	0
	iromium	ppm 🔘 <1	○ <1	◯ <1	○ <1
Molybdenum ppm 2 2 2 2	olybdenum	ppm <b>2</b>	2	2	2
Nickel ppm ○<1 ○ 0 ○ 0	ckel	ppm 🔘 <1	0	0	0
<b>Titanium</b> ppm <b>0</b> 0 0	anium	ppm <b>0</b>	0	0	0
Silver ppm <1 0 2 0	ver	ppm <1	0	2	0
Manganese ppm <b>2 1</b>	anganese	ppm 🔵 2	◯ <1	2	01
<b>Vanadium</b> ppm <b>0</b> 0 0	nadium	ppm <b>0</b>	0	0	0



#### **REPUBLIC SERVICES**

2495 117TH STREET INVER GROVE HEIGHTS, MN US 55077 Contact: JOHN SCHAFFER jschaffer@republicservices.com T: F:

#### 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.

Depot:	REPIN
Unique No:	10605
Signed:	Jonath
Report Date:	17 Aug

EPINV 605584 nathan Hester Aug 2023







# GRAPHS

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#### Ferrous Alloys

