

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 049453-1464 - Front Differential

Sample No: LH0278903

Oil Type: GEAR OIL SAE 75W90



#### SAMPLE INFORMATION

Sample Number	LH0278903	LH0251595	LH0216019	LH
Sample Date	14 Nov 2023	27 Jan 2023	31 Aug 2022	01 Feb 2022
Machine Hours	9097	7157	6321	4131
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Summit Aggregates**  
 2686 Greenfield Blvd.  
 Ayr, ON  
 CA N0B 1E0  
 Contact: Greg .  
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 F:



#### OIL CONDITION

Visc @ 40°C	cSt	94.2	90.7	92.1	92.4
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#### CONTAMINATION

Element	ppm	<1	3	5	7
Silicon	ppm	<1	3	5	7
Sodium	ppm	0	<1	1	2
Potassium	ppm	0	0	<1	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

Element	ppm	32	41	72	95
Iron	ppm	32	41	72	95
Copper	ppm	11	16	39	53
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	3	5
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	1	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Element	ppm	10	11	10	11
Calcium	ppm	10	11	10	11
Magnesium	ppm	1	3	2	2
Zinc	ppm	15	17	25	27
Phosphorus	ppm	2545	2648	2547	2940
Barium	ppm	<1	0	0	0
Boron	ppm	320	303	283	306

**Depot:** SUMAYR  
**Unique No:** 5681721  
**Signed:** Kevin Marson  
**Report Date:** 15 Nov 2023



### GRAPHS

