

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 048547-1464 - Diesel Engine

Sample No: LH0281483

Oil Type: DIESEL ENGINE OIL SAE 30



#### SAMPLE INFORMATION

Sample Number	LH0281483	LH0251462	LH0239244	LH
Sample Date	07 Dec 2023	16 Feb 2023	15 Sep 2022	18 Mar 2022
Machine Hours	9037	7024	5991	4762
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 .  
 greg@summitagg.com  
 T: (226)791-0161  
 F:



#### OIL CONDITION

Visc @ 100°C	cSt	12.4	11.9	11.5	11.1
Oxidation (PA)	%	69	73	92	27



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	76	75	88	30
Sulfation (PA)	%	55	59	66	39
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	6
Sodium	ppm	2	4	5	4
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

Iron	ppm	6	4	11	7
Copper	ppm	2	<1	4	2
Lead	ppm	<1	<1	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	61	58	58	57
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1070	949	874	827
Magnesium	ppm	980	1094	1173	1165
Zinc	ppm	1206	1221	1274	1252
Phosphorus	ppm	952	1115	1133	1053
Barium	ppm	<1	0	0	0
Boron	ppm	3	30	14	25

**Depot:** SUMAYR  
**Unique No:** 5694884  
**Signed:** Wes Davis  
**Report Date:** 08 Dec 2023



### GRAPHS

