

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 048547-1464 - Front Differential

Sample No: LH0281486

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0281486	LH0247276	LH0239248	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	ABNORMAL

Summit Aggregates
 2686 Greenfield Blvd.
 Ayr, ON
 CA N0B 1E0
 Contact: Greg .
 greg@summitagg.com
 T: (226)791-0161
 F:



OIL CONDITION

Visc @ 40°C	cSt	94.2	88.6	92.1	86.6



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	3	9
Sodium	ppm	3	<1	1	7
Potassium	ppm	1	0	<1	1



WEAR METALS

Iron	ppm	36	42	52	196
Copper	ppm	11	12	20	41
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	<1	3
Aluminum	ppm	<1	<1	0	1
Chromium	ppm	0	<1	<1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	3	30
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	9	10	20	10
Magnesium	ppm	<1	3	2	2
Zinc	ppm	14	19	31	80
Phosphorus	ppm	2399	2747	2952	3597
Barium	ppm	<1	0	0	0
Boron	ppm	306	305	298	276

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. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: SUMAYR
 Unique No: 5695018
 Signed: Kevin Marson
 Report Date: 11 Dec 2023



GRAPHS

