

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 049453-1464 - Diesel Engine

Sample No: LH0278973

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0278973	LH0251690	LH0216015	LH
Sample Date	14 Nov 2023	27 Jan 2023	31 Aug 2022	01 Feb 2022
Machine Hours	9097	7157	6321	0
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	13.0	13.0	12.1	11.5
Oxidation (PA)	%	69	66	77	31



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	73	69	78	35
Sulfation (PA)	%	55	55	60	37
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.1	1.5
Silicon	ppm	2	8	6	6
Sodium	ppm	1	2	4	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	3	5	8
Copper	ppm	2	2	3	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	59	59	51	59
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1016	1157	939	839
Magnesium	ppm	997	959	981	1206
Zinc	ppm	1183	1208	1148	1266
Phosphorus	ppm	985	1075	943	1081
Barium	ppm	<1	0	0	0
Boron	ppm	8	6	23	22

Depot: SUMAYR
Unique No: 5681569
Signed: Wes Davis
Report Date: 15 Nov 2023



GRAPHS

