

LIEBHERR

CONSTRUCTION EQUIPMENT



[EARTH BORING] LIEBHERR LB28 115607 - Left Track Drive

Sample No: LH0286855

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

Sample Number	LH0286855	LH0247351	LH0230903	LH0136074
Sample Date	13 Mar 2024	14 Dec 2022	05 Jul 2022	08 Jun 2020
Machine Hours	9668	8263	7685	5168
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Liebherr Canada

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 Richmond, BC
 CA V6W 1J8
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OIL CONDITION

Visc @ 40°C	cSt	93.4	96.6	94.0	98.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	<1	16	16
Sodium	ppm	<1	<1	1	0
Potassium	ppm	1	<1	2	2

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	15	26	27	35
Copper	ppm	1	1	2	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	5	5
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	13	13	136	14
Magnesium	ppm	1	<1	4	4
Zinc	ppm	7	8	12	8
Phosphorus	ppm	941	1298	1083	1335
Barium	ppm	0	0	0	0
Boron	ppm	123	308	276	339

Depot: LIERIC
 Unique No: 5747215
 Signed: Wes Davis
 Report Date: 14 Mar 2024



GRAPHS

