

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 1528-132602 - Right Final Drive

Sample No: LH0210077

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING

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WILLIAMSPORT, PA
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SAMPLE INFORMATION

Sample Number	LH0210077	LH0210068	LH0210059	LH0210050
Sample Date	22 Jan 2024	22 Sep 2023	04 Apr 2023	06 Jan 2023
Machine Hours	5938	5266	4009	3384
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	SEVERE



OIL CONDITION

Visc @ 40°C	cSt	132	143	137	191
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 121	● 467	● 288	● 455
Sodium	ppm	● 0	● 9	● 4	● 8
Potassium	ppm	● 10	● 34	● 23	● 35



WEAR METALS

Iron	ppm	● 210	● 1151	● 540	● 882
Copper	ppm	● 19	● 38	● 26	● 39
Lead	ppm	● 2	● 7	● 5	● 9
Tin	ppm	● 1	● 3	● 2	● 3
Aluminum	ppm	● 27	● 119	● 76	● 113
Chromium	ppm	● 2	● 13	● 5	● 8
Molybdenum	ppm	● <1	● 1	● <1	● 4
Nickel	ppm	● 2	● 11	● 5	● 8
Titanium	ppm	● 3	● 10	● 6	● 10
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● 2	● 11	● 5	● 8
Vanadium	ppm	● 0	● <1	● <1	● <1



ADDITIVES

Calcium	ppm	● 143	● 683	● 356	● 580
Magnesium	ppm	● 16	● 75	● 40	● 69
Zinc	ppm	● 0	● 24	● 22	● 59
Phosphorus	ppm	● 346	● 484	● 368	● 482
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● 0	● 3	● 5	● 18

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: STAWILLH
Unique No: 10856298
Signed: Sean Felton
Report Date: 31 Jan 2024



GRAPHS

