

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 045906-1484 - Transmission (Manual)

Sample No: LH0287995

Oil Type: LIEBHERR GEAR MF 80W



Sample Information

Sample Number	LH0287995	LH0250542	LH0246907	LH0142567
Sample Date	26 Mar 2024	12 Sep 2023	22 Dec 2022	25 Feb 2021
Machine Hours	15268	14240	12792	9535
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

ECOWASTE INDUSTRIES LTD.
 15111 WILLIAMS ROAD
 RICHMOND, BC
 CA V6W 1G9
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	37.8	36.4	36.2	36.6

T: (604)277-1410
 F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	9	8	7
Sodium	ppm	2	5	7	7
Potassium	ppm	<1	2	1	<1

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR GEAR MF 80W, however, a fluid match indicates that this fluid is SAE 70W80 Tractor TDH Fluid. Please confirm the fluid type and grade on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 70W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.



Wear Metals

Iron	ppm	21	19	25	5
Copper	ppm	<1	1	1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	1	3	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	2	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	3770	3552	3855	3404
Magnesium	ppm	14	16	19	20
Zinc	ppm	1433	1445	1502	1430
Phosphorus	ppm	1169	1241	1301	1149
Barium	ppm	0	0	0	0
Boron	ppm	109	99	106	97

Depot: ECORIC
 Unique No: 5759856
 Signed: Kevin Marson
 Report Date: 04 Apr 2024



Graphs

