

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 053090-1334 - Final Drive

Sample No: LH0287069

Oil Type: {unknown}



Sample Information

Sample Number	LH0287069	---	---	---
Sample Date	16 Apr 2024	---	---	---
Machine Hours	10149	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

Waterford Sand and Gravel Ltd.

70 Ewart Avenue
 Brantford, ON
 CA N3T 5M1
 Contact: Ed Lamb
 elamb@waterfordgroup.ca
 T: (905)981-6702
 F:



Oil Condition

Visc @ 40°C	cSt	112	---	---	---
Visc @ 100°C	cSt	15.9	---	---	---
Viscosity Index (VI)	Scale	151	---	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Aluminum and chromium and copper and tin ppm levels are severe. PQ levels are severe. Iron ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is a high concentration of water present in the oil. High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



Contamination

Water	%	1.354	---	---	---
Silicon	ppm	399	---	---	---
Sodium	ppm	6	---	---	---
Potassium	ppm	40	---	---	---



Wear Metals

PQ		460	---	---	---
Iron	ppm	1590	---	---	---
Copper	ppm	376	---	---	---
Lead	ppm	10	---	---	---
Tin	ppm	27	---	---	---
Aluminum	ppm	67	---	---	---
Chromium	ppm	16	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	5	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	22	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	928	---	---	---
Magnesium	ppm	430	---	---	---
Zinc	ppm	89	---	---	---
Phosphorus	ppm	1995	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	44	---	---	---

Depot: WAT70BRA2
 Unique No: 5762638
 Signed: Kevin Marson
 Report Date: 18 Apr 2024



Graphs

