

LIEBHERR

CONSTRUCTION EQUIPMENT



[[579683]] LIEBHERR L586 71616 - Rear Axle

Sample No: LH0270216

Oil Type: SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0270216	LH0270314	LH0274528	LH0256669
Sample Date	04 Oct 2023	25 Sep 2023	20 Aug 2023	17 Apr 2023
Machine Hours	0	2888	2389	1042
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

DOFASCO INC.

P.O. BOX 2460, 1330 BURLINGTON ST.E, HEAVY EQUIPMENT REPAIR
 HAMILTON, ON
 CA L8N 3J5
 Contact: HAROLD LOUDEN
 harold.louden@arcelormittal.com
 T: (905)548-7200
 F: (905)548-7465



OIL CONDITION

Visc @ 40°C	cSt	98.7	98.7	107	193



CONTAMINATION

Element	ppm	3	5	11	21
Silicon	ppm	3	5	11	21
Sodium	ppm	2	2	5	6
Potassium	ppm	0	0	<1	1



WEAR METALS

Element	ppm	24	75	163	173
Iron	ppm	24	75	163	173
Copper	ppm	12	41	84	166
Lead	ppm	<1	1	2	4
Tin	ppm	<1	2	5	8
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	0	<1	2	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	5	22	36
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	ppm	13	9	8	6
Calcium	ppm	13	9	8	6
Magnesium	ppm	3	1	2	3
Zinc	ppm	17	34	57	66
Phosphorus	ppm	2525	2512	2460	2430
Barium	ppm	<1	<1	<1	0
Boron	ppm	285	285	257	4

Diagnosis

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Boron ppm levels are abnormally high. Visc @ 40°C is abnormally low. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate.

Depot: DOFHAM
 Unique No: 5656314
 Signed: Kevin Marson
 Report Date: 06 Oct 2023



GRAPHS

