

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058216-1334 - Front Differential

Sample No: LH0269545

Oil Type: SAE 75W90



#### SAMPLE INFORMATION

Sample Number	LH0269545	LH0260334	LH0238505	LH0224240
Sample Date	19 Jul 2023	14 May 2023	27 Aug 2022	21 Mar 2022
Machine Hours	7908	7544	6201	4963
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

**MODERN CONSTRUCTION (1983) LTD.**  
 364 BRIGGS CROSS ROAD  
 STILESVILLE, NB  
 CA E1G 3G3  
 Contact: Blaine Cail  
 blaine.cail@moderngroup.ca  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	176	134	177	191
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

Element	ppm	5	12	4	14
Silicon	ppm	5	12	4	14
Sodium	ppm	1	2	3	2
Potassium	ppm	<1	<1	<1	1



#### WEAR METALS

Element	ppm	37	199	152	252
Iron	ppm	37	199	152	252
Copper	ppm	22	134	71	215
Lead	ppm	<1	3	2	5
Tin	ppm	<1	7	4	11
Aluminum	ppm	2	4	2	2
Chromium	ppm	<1	2	<1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	5	3	2	4
Vanadium	ppm	0	<1	0	0



#### ADDITIVES

Element	ppm	6	18	13	9
Calcium	ppm	6	18	13	9
Magnesium	ppm	<1	2	<1	<1
Zinc	ppm	13	34	37	39
Phosphorus	ppm	2340	2400	2097	2414
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	<1	<1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: MODSTI  
 Unique No: 5619623  
 Signed: Wes Davis  
 Report Date: 08 Aug 2023



### GRAPHS

