

LIEBHERR L538 1559-59801 - Front Differential

Sample No: LH0209842

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0209842	LH05774529	LH0209829	LH0209816	
Sample Date	28 Feb 2024	21 Feb 2023	01 Mar 2022	27 Oct 2021	
Machine Hours	3009	0	966	495	
Oil Hours	0	2003	0	0	
Oil Changed	Not Changd	Not Changd	Changed	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL	
OIL CONDITION					
Visc @ 40°C cSt	0 172	0 172	0 179	0 196	
-					

	NTAMIN/	ATION			
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	04	0 4	0 4	6
Sodium	ppm	03	2	2	0 10
Potassium	ppm	0 2	03	◯ <1	02

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WEA WEA	R METAI	LS			
Iron	ppm	0 112	58	65	0 110
Copper	ppm	() <1	0 0	0	0 <1
Lead	ppm	0	01	0	0
Tin	ppm	0 ()	○ <1	0	0
Aluminum	ppm	03	0 1	0	○ <1
Chromium	ppm	<mark></mark> <1	○ <1	◯ <1	◯ <1
Molybdenum	ppm	() <1	◯ <1	0	<1
Nickel	ppm	0	○ <1	0	◯ <1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	04	0 4	3	4
Vanadium	ppm	0	0	0	<1

٥ **ADDITIVES** Calcium 0 35 ppm 31 26 75 03 04 2 Magnesium ppm <1 Zinc 0 10 011 16 12 ppm 0 1822 2522 207 Phosphorus ppm 2448 Barium 01 0 ppm <1 0 Boron 25 ppm <1

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DIEHL AND NUEMAIER

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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:	DIED
Unique No:	10913
Signed:	Jonat
Report Date:	08 Ma

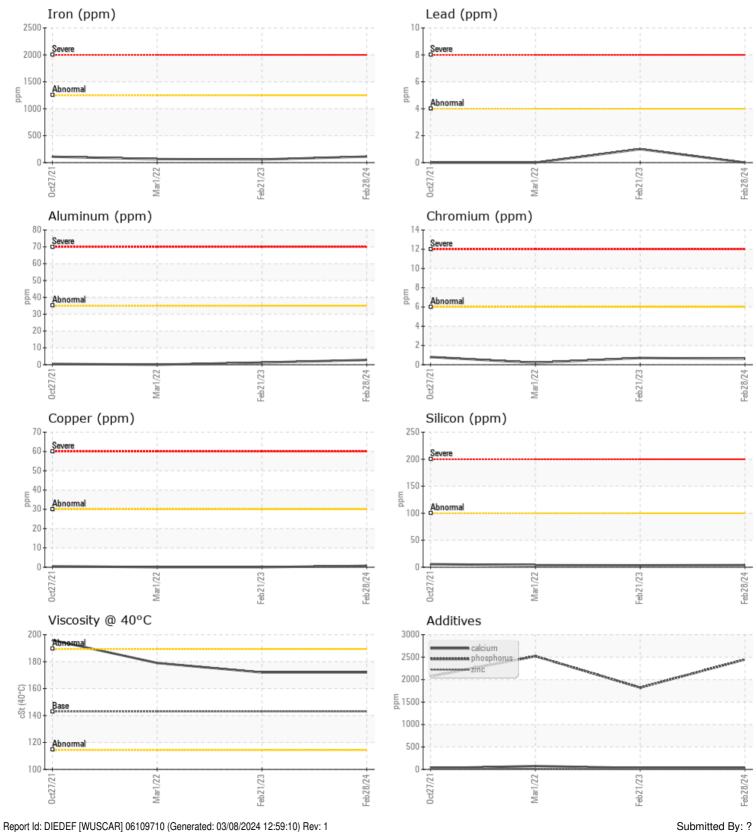
IEDEF 0913207 onathan Hester 8 Mar 2024





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Submitted By: ?