LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR A918 097283-1184 - Rear Differential

Sample No: LHMC166747

Oil Type: GEAR OIL SAE 80W90

SAM	PLE INFO	ORMATION			
Sample Number		LHMC166747	LHMC130110	LHMC131288	LHMC131350
Sample Date		23 Sep 2023	11 Sep 2020	10 Dec 2019	10 Dec 2019
Machine Hours		12345	4400	1919	1919
Oil Hours		0	0	1919	1919
Oil Changed		Not Changd	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OILC	ONDITION	ON			
Visc @ 40°C	cSt	139	O 175	55.8	54.4
**					
CON	TAMINA	ATION			
Silicon	ppm	3	O 5	14	0 8
Sodium	ppm	4	O 2	O 22	O 22
Potassium	ppm	1	O <1	3	O <1
₩FA	R META	LS			

WEA	R METALS				
Iron	ppm	39	○ 30	O 10	O 10
Copper	ppm	1	3	O 2	O 7
Lead	ppm	0	O <1	O <1	O 0
Tin	ppm	0	0	O 0	O 0
Aluminum	ppm	0	0	1	O <1
Chromium	ppm	0 <1	O <1	O <1	O <1
Molybdenum	ppm	1	<1	0	0
Nickel	ppm	○ <1	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	2	2	5	2
Vanadium	ppm	0	0	0	0

ADDITIVES								
Calcium	ppm	138	310	3724	3385			
Magnesium	ppm	10	2	13	10			
Zinc	ppm	59	111	1418	1308			
Phosphorus	ppm	1920	2028	1058	1087			
Barium	ppm	0	0	<1	0			
Boron	ppm	347	12	98	104			



UNITED SCRAP 1545 S CICERO AVE CHICAGO, IL US 60804 Contact:

T: F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot: UNICHILH
Unique No: 10682941
Signed: Don Baldridge
Report Date: 10 Oct 2023

Contact/Location: ? ? - UNICHILH

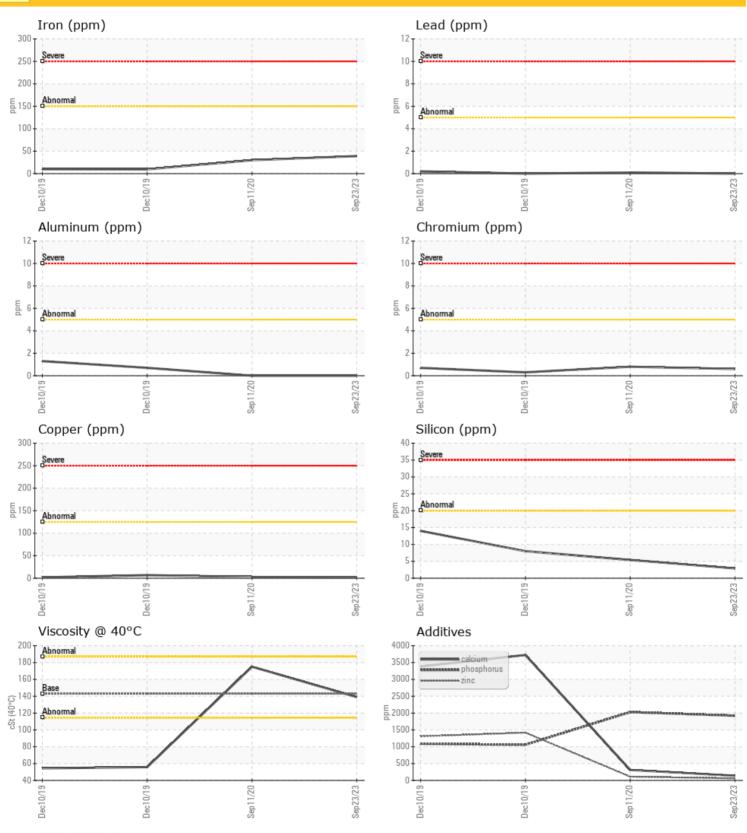
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



Report Id: UNICHILH [WUSCAR] 05970991 (Generated: 10/10/2023 15:10:21) Rev: 1

Contact/Location: ? ? - UNICHILH