

LIEBHERR

CONSTRUCTION EQUIPMENT



[(345481)] 128862-1216 - Front Left Wheel Hub

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH	LH0251062	LH0230671	LH0192121
Sample Date	17 Jul 2023	09 Feb 2023	07 Jun 2022	15 Dec 2021
Machine Hours	3940	3024	1862	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal
10171 AVE PELLETIER
MONTREAL-NORD, QC
CA H1H 3R2
Contact: Allen Singerman



OIL CONDITION

Visc @ 40°C	cSt	180	179	174	172
		●	●	●	●

T:
F:



CONTAMINATION

Element	ppm	2	2	8	6
Silicon	ppm	● 2	● 2	● 8	● 6
Sodium	ppm	● 9	● 11	● 7	● 9
Potassium	ppm	● <1	● <1	● 2	● 2

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

Element	ppm	16	24	24	27
Iron	ppm	● 16	● 24	● 24	● 27
Copper	ppm	● 6	● 7	● 8	● 9
Lead	ppm	● 0	● <1	● <1	● <1
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 0	● 0	● 0	● <1
Molybdenum	ppm	● <1	● <1	● <1	● 2
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	ppm	16	27	52	81
Calcium	ppm	16	● 27	52	● 81
Magnesium	ppm	● 2	● 4	● 2	● <1
Zinc	ppm	18	● 23	26	● 24
Phosphorus	ppm	● 2353	● 2441	● 2363	● 2304
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● 2	● 3	● 6	● 8

Depot: AIM101MON
Unique No: 5616625
Signed: Wes Davis
Report Date: 21 Jul 2023



GRAPHS

