

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 120282-1218 - Rear Differential

Sample No: LH0280269

Oil Type: CHEVRON DELO SYNTHETIC GEAR 75W90



ARCELORMITTAL LONG PRODUITS CANADA
3185 ROUTE MARIE-VICTORIN
CONTRECOEUR, QC
CA J0L 1C0
Contact: Danny Drouin
danny.drouin@arcelormittal.com
T:
F:



SAMPLE INFORMATION

Sample Number	LH0280269	LH0270037	LH0261215	LH0256423
Sample Date	02 Dec 2023	27 Sep 2023	01 Jul 2023	13 May 2023
Machine Hours	12550	11869	11397	10974
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	104	104	104	105
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 3	● 4	● 4	● 3
Sodium	ppm	● 4	● 4	● 3	● <1
Potassium	ppm	● <1	● 0	● <1	● 0



WEAR METALS

Iron	ppm	● 24	● 23	● 18	● 5
Copper	ppm	● 3	● 3	● 1	● <1
Lead	ppm	● <1	● <1	● 0	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● 0
Chromium	ppm	● 0	● 0	● 0	● 0
Molybdenum	ppm	● 0	● 0	● <1	● 0
Nickel	ppm	● <1	● <1	● <1	● 0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	● <1	● <1	● <1	● 0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	7	● 8	● 7	● 3
Magnesium	ppm	● <1	● 1	● 2	● 0
Zinc	ppm	● 12	● 14	● 12	● 6
Phosphorus	ppm	1383	● 1393	● 1469	● 1551
Barium	ppm	● <1	● <1	● 0	● 0
Boron	ppm	252	● 240	● 258	● 279

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.

Depot: MITCON
Unique No: 5694708
Signed: Wes Davis
Report Date: 07 Dec 2023

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GRAPHS

