

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045555-1705 - Left Final Drive

Sample No: LH0274131

Oil Type: LIEBHERR GEAR BASIC 90 LS



Entreprises Hans Gruenwald Inc.
3756 chein des Sables
Vaudreuil-Dorion, QC
CA J7V 0K1
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0274131	LH0165222	LH0165213	LH0165231
Sample Date	24 Aug 2023	10 Jul 2022	31 Aug 2021	14 Jan 2021
Machine Hours	2972	2633	1906	1231
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	175	197	106	210
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CONTAMINATION

Water	%	---	---	---	0.084
Silicon	ppm	53	322	107	631
Sodium	ppm	6	23	8	44
Potassium	ppm	4	29	11	57



WEAR METALS

PQ		---	---	---	219
Iron	ppm	162	458	195	596
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	12	76	28	177
Chromium	ppm	2	5	2	7
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	<1	4	1	11
Silver	ppm	0	0	<1	<1
Manganese	ppm	1	5	2	6
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	33	104	28	92
Magnesium	ppm	4	25	16	50
Zinc	ppm	15	18	27	12
Phosphorus	ppm	2347	2474	1211	2270
Barium	ppm	0	<1	1	1
Boron	ppm	7	14	38	5

T:
F:

Diagnosis

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. L'état de l'huile est acceptable pour la durée de service.

Depot: ENT375VAU
Unique No: 5632237
Signed: Wes Davis
Report Date: 29 Aug 2023



GRAPHS

