

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340369)] LIEBHERR R920 045718-1705 - Swing Drive

Sample No: LH0274848

Oil Type: LIEBHERR GEAR BASIC 90 LS



INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0274848	LH0251812	LH0242552	LH0178335
Date d'échant.	06 Oct 2023	14 Mar 2023	03 Nov 2022	18 Jul 2022
Heures de la Machine	4924	0	3329	2847
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Not Changd	Not Changd
Statut de l'échant.	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

CLOUTIER VENTURES LTD.
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ÉTAT D'HUILE

Visc 40°C	cSt	112	106	105	104
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CONTAMINATION

Eau	%	---	---	---	0.282
Silicium	ppm	5	7	4	4
Sodium	ppm	<1	2	<1	<1
Potassium	ppm	<1	<1	0	<1



MÉTAUX D'USURE

PQ		0	2	0	0
Fer	ppm	1241	1167	972	819
Cuivre	ppm	76	56	44	35
Plomb	ppm	3	4	2	1
Étain	ppm	<1	<1	<1	<1
Aluminium	ppm	<1	<1	<1	<1
Chrome	ppm	10	11	9	8
Molybdène	ppm	<1	2	1	1
Nickel	ppm	<1	1	1	<1
Titane	ppm	0	<1	0	0
Argent	ppm	<1	0	0	0
Manganèse	ppm	7	10	8	7
Vanadium	ppm	0	0	0	<1



ADDITIFS

Calcium	ppm	16	25	18	17
Magnésium	ppm	4	10	6	8
Zinc	ppm	40	42	33	33
Phosphore	ppm	1512	1505	1440	1329
Baryum	ppm	1	0	0	<1
Bore	ppm	44	99	54	82

Diagnostic

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CLOPEM
Unique No: 5657773
Signed: Kevin Marson
Report Date: 12 Oct 2023



GRAPHS

