

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(340369)] LIEBHERR R920 045718-1705 - Diesel Engine

Sample No: LH0274845

Oil Type: PETRO CANADA 10W40



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0274845	LH0247507	LH0251813	LH0242546
Date d'échant.	06 Oct 2023	24 Jun 2023	14 Mar 2023	03 Nov 2022
Heures de la Machine	4924	4406	0	3329
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	NORMAL

**CLOUTHIER VENTURES LTD.**  
 59 MATTHEWS STREET, R.R. # 5  
 PEMBROKE, ON  
 CA K8A 0A6  
 Contact: Travis Bennett  
 tbennett@clouthierconst.com  
 T: (613)735-6531  
 F: (613)735-2769



#### ÉTAT D'HUILE

Visc 100°C	cSt	13.6	12.2	12.6	14.2
Oxydation (PA)	%	67	81	89	75



#### CONTAMINATION

% de suie	%	0	0	0	0
Nitration (PA)	%	68	88	88	76
Sulfatation (PA)	%	56	63	69	60
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	7	23	8	22
Sodium	ppm	2	5	5	3
Potassium	ppm	0	<1	0	0

#### Diagnostic

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### MÉTAUX D'USURE

Fer	ppm	10	12	11	11
Cuivre	ppm	1	2	2	4
Plomb	ppm	<1	<1	<1	<1
Étain	ppm	0	0	0	<1
Aluminium	ppm	1	2	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	58	61	58	57
Nickel	ppm	0	0	0	0
Titane	ppm	7	4	8	4
Argent	ppm	<1	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	1186	965	1101	1225
Magnésium	ppm	964	1137	1100	929
Zinc	ppm	1267	1273	1316	1221
Phosphore	ppm	1037	1112	1166	1098
Baryum	ppm	<1	0	0	0
Bore	ppm	12	33	44	8

Depot: CLOPEM  
 Unique No: 5657607  
 Signed: Kevin Marson  
 Report Date: 12 Oct 2023



### GRAPHS

