

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R954C 023859 - Diesel Engine

Sample No: LH0278968

Oil Type: PETRO CANADA 10W40



INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0278968	LH0251354	LH0195775	LH0215814
Date d'échant.	07 Nov 2023	14 Mar 2023	13 Apr 2022	03 Dec 2021
Heures de la Machine	21581	21061	20026	19606
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	NORMAL

Gerdau Ameristeel

55A Fenmar Drive

Toronto, ON

CA M9L 1M3

Contact: Liebherr Maintenance



ÉTAT D'HUILE

Visc 100°C	cSt	13.6	13.1	11.9	11.6
Oxydation (PA)	%	75	66	55	72

T:

F:



CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	1	0.5	0.4	1.1
Nitration (PA)	%	87	74	58	76
Sulfatation (PA)	%	67	65	57	67
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	7	6	5	5
Sodium	ppm	3	2	2	2
Potassium	ppm	2	0	<1	<1

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	20	13	15	22
Cuivre	ppm	12	6	4	4
Plomb	ppm	1	2	<1	<1
Étain	ppm	1	<1	<1	<1
Aluminium	ppm	4	2	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	51	62	52	50
Nickel	ppm	<1	<1	<1	<1
Titane	ppm	16	<1	0	0
Argent	ppm	<1	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIFS

Calcium	ppm	1321	1169	896	924
Magnésium	ppm	866	1003	847	838
Zinc	ppm	1244	1219	1141	1124
Phosphore	ppm	984	1109	988	959
Baryum	ppm	<1	0	0	0
Bore	ppm	12	1	4	4

Depot: GERTOR

Unique No: 5694494

Signed: Kevin Marson

Report Date: 07 Dec 2023



GRAPHS

