

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050294-1650 - Diesel Engine

Sample No: LH0172353

Oil Type: PETRO CANADA 15W40



INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0172353	LH0172344	LH0257075	LH0234695
Date d'échant.	03 Jan 2024	11 Jul 2023	21 Mar 2023	10 Sep 2022
Heures de la Machine	4951	4478	4098	3452
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	ABNORMAL

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ÉTAT D'HUILE

Visc 100°C	cSt	13.6	13.5	12.9	12.3
Oxydation (PA)	%	69	63	92	198



CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	80	63	85	93
Sulfatation (PA)	%	58	54	70	110
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	1
Silicium	ppm	7	6	7	8
Sodium	ppm	2	2	2	3
Potassium	ppm	4	<1	<1	3

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	4	5	9	9
Cuivre	ppm	10	31	87	94
Plomb	ppm	1	1	4	5
Étain	ppm	<1	<1	1	1
Aluminium	ppm	3	1	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	84	56	58	42
Nickel	ppm	<1	0	<1	0
Titane	ppm	0	0	<1	<1
Argent	ppm	0	<1	0	0
Manganèse	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIFS

Calcium	ppm	2138	1059	1204	1492
Magnésium	ppm	80	974	973	860
Zinc	ppm	1103	1165	1157	904
Phosphore	ppm	966	1017	973	853
Baryum	ppm	<1	<1	3	19
Bore	ppm	27	4	7	83

Depot: MOOPAL
 Unique No: 5709230
 Signed: Wes Davis
 Report Date: 11 Jan 2024



GRAPHS

