

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340370)] LIEBHERR R945 050696-1866 - Diesel Engine

Sample No: LH0247010

Oil Type: PETRO CANADA 10W40



INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0247010	LH0178575	LH0222719	LH0213892
Date d'échant.	27 Jun 2023	18 Jul 2022	28 Apr 2022	16 Dec 2021
Heures de la Machine	4010	2482	2019	1446
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	ABNORMAL	NORMAL	NORMAL	NORMAL



ÉTAT D'HUILE

Visc 100°C	cSt	11.4	13.8	13.6	13.3
Oxydation (PA)	%	72	62	62	60



CONTAMINATION

% de suie	%	0	0	0	0
Nitration (PA)	%	79	60	67	59
Sulfatation (PA)	%	57	53	57	53
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	2.2	<1.0	<1.0	<1.0
Silicium	ppm	20	7	6	7
Sodium	ppm	4	2	1	2
Potassium	ppm	<1	<1	<1	<1



MÉTAUX D'USURE

Fer	ppm	3	4	14	4
Cuivre	ppm	1	2	3	4
Plomb	ppm	0	<1	<1	<1
Étain	ppm	<1	<1	<1	<1
Aluminium	ppm	1	<1	1	1
Chrome	ppm	<1	0	<1	<1
Molybdène	ppm	58	55	58	61
Nickel	ppm	0	0	<1	<1
Titane	ppm	0	<1	<1	4
Argent	ppm	0	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIFS

Calcium	ppm	843	1115	1052	1194
Magnésium	ppm	1108	939	993	1088
Zinc	ppm	1206	1171	1226	1345
Phosphore	ppm	1067	987	1084	1164
Baryum	ppm	0	0	<1	<1
Bore	ppm	29	1	2	9

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Diagnostic

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Depot: CLOPEM
 Unique No: 5630692
 Signed: Kevin Marson
 Report Date: 24 Aug 2023



GRAPHS

