

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 094197-1216 - Diesel Engine

Sample No: LH0284151

Oil Type: PETRO CANADA 10W40



INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0284151	LH0279118	LH0261135	LH0260825
Date d'échant.	18 Mar 2024	05 Feb 2024	29 Dec 2023	31 May 2023
Heures de la Machine	25297	24766	24211	22824
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	ABNORMAL	ABNORMAL	NORMAL	NORMAL

INDUSTRIES GDS INC.

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ÉTAT D'HUILE

Visc 100°C	cSt	11.3	11.7	13.6	13.7
Oxydation (PA)	%	74	76	58	61



CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	74	77	53	66
Sulfatation (PA)	%	55	55	50	52
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	1	1.1	<1.0	<1.0
Silicium	ppm	5	6	6	6
Sodium	ppm	4	5	2	<1
Potassium	ppm	0	2	2	<1



MÉTAUX D'USURE

Fer	ppm	4	5	5	2
Cuivre	ppm	189	82	4	<1
Plomb	ppm	4	2	<1	0
Étain	ppm	0	0	0	0
Aluminium	ppm	0	1	1	1
Chrome	ppm	0	0	0	0
Molybdène	ppm	53	58	55	59
Nickel	ppm	0	0	<1	0
Titane	ppm	0	0	0	0
Argent	ppm	0	<1	0	0
Manganèse	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIFS

Calcium	ppm	784	857	1050	1119
Magnésium	ppm	1067	1097	934	965
Zinc	ppm	1138	1188	1163	1185
Phosphore	ppm	941	1041	989	1064
Baryum	ppm	<1	<1	3	0
Bore	ppm	29	33	3	<1

Diagnostic

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Copper ppm levels are noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: INDVIL
Unique No: 5748760
Signed: Kevin Marson
Report Date: 22 Mar 2024



GRAPHS

