

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Diesel Engine

Sample No: LH0278857

Oil Type: PETRO CANADA 10W40



Information sur l'échantillon

Numéro d'échant.	LH0278857	LH0277753	LH0270562	LH0222875
Date d'échant.	30 Apr 2024	08 Jan 2024	25 Sep 2023	09 May 2023
Heures de la Machine	8543	8104	7608	7133
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	ABNORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

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État d'huile

Visc 100°C	cSt	11.4	13.0	12.8	12.5
Oxydation (PA)	%	81	67	65	69



Contamination

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	88	73	74	84
Sulfatation (PA)	%	57	53	53	54
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	1.1	<1.0	<1.0	<1.0
Silicium	ppm	6	6	7	6
Sodium	ppm	4	1	2	2
Potassium	ppm	0	<1	0	0



Métaux d'usure

Fer	ppm	4	4	5	5
Cuivre	ppm	<1	<1	3	3
Plomb	ppm	0	<1	1	<1
Étain	ppm	0	0	0	<1
Aluminium	ppm	1	1	2	1
Chrome	ppm	0	0	0	0
Molybdène	ppm	58	57	59	59
Nickel	ppm	0	0	0	<1
Titane	ppm	0	0	0	<1
Argent	ppm	0	0	<1	0
Manganèse	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additifs

Calcium	ppm	844	1132	1127	1133
Magnésium	ppm	1086	925	976	950
Zinc	ppm	1170	1162	1244	1241
Phosphore	ppm	973	1000	1021	1111
Baryum	ppm	0	0	<1	0
Bore	ppm	30	6	1	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. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Viscosity of sample indicates oil is within SAE 30 range, advise investigate.

Depot: BAKOTT
Unique No: 5775001
Signed: Kevin Marson
Report Date: 08 May 2024



Graphs

