

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 050669-1828 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH	LH	LH0192330	LH0181393
Sample Date	18 Jan 2024	20 Feb 2023	21 Dec 2021	23 Feb 2021
Machine Hours	4293	0	1945	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Entreprises S. Besner Inc.

650 Route 201

Saint-Clet, QC

CA J0P 1S0

Contact: Tristan

Tristan@entreprisesbesner.com

T:

F:



OIL CONDITION

Visc @ 40°C	cSt	---	---	---	69.3
Visc @ 100°C	cSt	● 10.7	● 12.6	11.2	11.4
Viscosity Index (VI)	Scale	---	---	---	158
Oxidation (PA)	%	58	77	114	214

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	● 0	● 0	● 0	● 0
Nitration (PA)	%	54	79	90	93
Sulfation (PA)	%	52	63	73	118
Glycol	%	● 0.0	NEG	● 0.0	● 0.0
Fuel	%	<1.0	<1.0	● 0.7	● 0.6
Silicon	ppm	● 6	● 7	● 10	● 9
Sodium	ppm	● 1	● 2	● 11	● 4
Potassium	ppm	● 10	● <1	● 30	● 4



WEAR METALS

Iron	ppm	● 2	● 8	● 12	● 15
Copper	ppm	● 2	● 10	● 77	● 286
Lead	ppm	● <1	● <1	● 4	● 12
Tin	ppm	● 0	● 1	● 1	● 2
Aluminum	ppm	● 2	● 2	● 2	● 2
Chromium	ppm	● 0	● <1	● <1	● <1
Molybdenum	ppm	● 61	● 61	● 64	● 47
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	0	<1	0	<1
Silver	ppm	● 0	● 0	0	0
Manganese	ppm	● 0	● <1	● <1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 1100	● 1125	● 997	● 1310
Magnesium	ppm	● 947	● 996	● 1291	● 930
Zinc	ppm	● 1179	● 1256	● 1349	● 936
Phosphorus	ppm	● 1026	● 1091	● 1096	● 695
Barium	ppm	● <1	● 2	● 10	● 57
Boron	ppm	● 7	● 3	● 23	● 57

Depot: ENT650STC

Unique No: 5711025

Signed: Kevin Marson

Report Date: 19 Jan 2024



GRAPHS

