

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 083532-1209 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH	LH0251208	LH0192212	LH
Sample Date	17 Jul 2023	22 Feb 2023	16 Mar 2022	18 Jul 2021
Machine Hours	7420	6940	5566	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SERVICES MATREC INC.
 32525 BOUL. LAURIER EST
 SAINT-HYACINTHE, QC
 CA J2R 2B2
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	11.6	13.7	12.4	11.0
Oxidation (PA)	%	75	55	65	74

T:
F:



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	73	53	65	72
Sulfation (PA)	%	58	52	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	5	7
Sodium	ppm	4	1	2	4
Potassium	ppm	<1	0	<1	<1

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.



WEAR METALS

Iron	ppm	7	6	7	7
Copper	ppm	2	1	12	3
Lead	ppm	<1	<1	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	59	62	61	59
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	2	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	899	1176	1101	872
Magnesium	ppm	1154	1015	1074	1214
Zinc	ppm	1275	1279	1307	1304
Phosphorus	ppm	1086	1136	1072	1093
Barium	ppm	0	0	0	0
Boron	ppm	20	2	3	27

Depot: SER325SAI
 Unique No: 5616706
 Signed: Wes Davis
 Report Date: 24 Jul 2023



GRAPHS

