

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 083686-1209 - Diesel Engine

Sample No: LH0260693

Oil Type: PETRO CANADA 10W40



SERVICES MATREC INC.
418 RUE ST-LOUIS
GATINEAU, QC
CA J8P 8B3
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0260693	LH0251186	LH0235283	LH0215400
Sample Date	29 Aug 2023	27 Feb 2023	16 Sep 2022	20 Jul 2022
Machine Hours	9692	8713	7880	7604
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.3	12.9	14.0	12.9
Oxidation (PA)	%	70	80	61	65



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	73	81	56	63
Sulfation (PA)	%	59	65	54	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	2	2	1	2
Potassium	ppm	<1	<1	0	6



WEAR METALS

Iron	ppm	6	8	3	5
Copper	ppm	1	2	<1	<1
Lead	ppm	1	3	1	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	2	1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	63	64	60	60
Nickel	ppm	0	<1	0	0
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	1056	1124	1101	1043
Magnesium	ppm	1080	1106	1002	1047
Zinc	ppm	1275	1337	1239	1272
Phosphorus	ppm	1136	1173	1132	1044
Barium	ppm	0	0	0	0
Boron	ppm	9	16	1	12

T:
F:

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.

Depot: SER418GAT
Unique No: 5632676
Signed: Kevin Marson
Report Date: 01 Sep 2023



GRAPHS

