

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 122402-1218 - Diesel Engine

Sample No: LH0269945

Oil Type: PETRO CANADA 10W40



ARCELORMITTAL LONG PRODUITS CANADA
3185 ROUTE MARIE-VICTORIN
CONTRECOEUR, QC
CA J0L 1C0
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SAMPLE INFORMATION

Sample Number	LH0269945	LH0225330	LH0242955	LH0242859
Sample Date	19 Aug 2023	17 Jun 2023	23 May 2023	04 Feb 2023
Machine Hours	8585	7934	8121	7301
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	13.1	13.4
Oxidation (PA)	%	186	194	206	212



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	100	98	110	113
Sulfation (PA)	%	110	109	115	119
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	5	4
Sodium	ppm	<1	<1	2	<1
Potassium	ppm	8	<1	3	<1



WEAR METALS

Iron	ppm	7	5	7	7
Copper	ppm	2	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	3	2	3
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	49	47	48	49
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1053	1036	1124	1106
Magnesium	ppm	882	865	877	885
Zinc	ppm	1187	1157	1231	1222
Phosphorus	ppm	1071	1055	1080	1084
Barium	ppm	0	0	0	0
Boron	ppm	47	67	58	63

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: MITCON
Unique No: 5631105
Signed: Kevin Marson
Report Date: 25 Aug 2023



GRAPHS

