

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 112212-1217 - Diesel Engine

Sample No: LH0260983

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	LH0260983	LH0261059	LH0269828	LH0238762
Sample Date	05 Nov 2023	15 Sep 2023	26 Aug 2023	19 Apr 2023
Machine Hours	10681	10374	10300	9262
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.2	12.1	12.7
Oxidation (PA)	%	186	174	209	193



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	90	64	113	100
Sulfation (PA)	%	108	104	123	109
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.1	1.7
Silicon	ppm	5	6	6	6
Sodium	ppm	1	<1	1	<1
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	4	3	9	6
Copper	ppm	1	<1	2	1
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	2	3
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	46	47	47	48
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1016	1030	1012	1123
Magnesium	ppm	864	912	850	879
Zinc	ppm	1197	1201	1141	1214
Phosphorus	ppm	996	1130	982	1095
Barium	ppm	<1	0	0	0
Boron	ppm	62	110	30	72

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: 5672363
Signed: Bill Quesnel
Report Date: 10 Nov 2023



GRAPHS

