

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 112212-1217 - Diesel Engine

Sample No: LH0279404

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	LH0279404	LH0260983	LH0261059	LH0269828
Sample Date	13 Jan 2024	05 Nov 2023	15 Sep 2023	26 Aug 2023
Machine Hours	11086	10681	10374	10300
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	13.2	12.1
Oxidation (PA)	%	186	186	174	209



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	91	90	64	113
Sulfation (PA)	%	108	108	104	123
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.1
Silicon	ppm	5	5	6	6
Sodium	ppm	<1	1	<1	1
Potassium	ppm	<1	0	<1	<1



WEAR METALS

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



ADDITIVES

Calcium	ppm	1018	1016	1030	1012
Magnesium	ppm	878	864	912	850
Zinc	ppm	1180	1197	1201	1141
Phosphorus	ppm	1023	996	1130	982
Barium	ppm	0	<1	0	0
Boron	ppm	73	62	110	30

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: 5710315
Signed: Kevin Marson
Report Date: 17 Jan 2024



GRAPHS

