

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 120282-1218 - Diesel Engine

Sample No: LH0280264

Oil Type: CHEVRON DELO 400 SYNTHETIC 5W40



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

Sample Number	LH0280264	LH0270042	LH0261210	LH0256418
Sample Date	02 Dec 2023	27 Sep 2023	01 Jul 2023	13 May 2023
Machine Hours	12550	11869	11397	10974
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.7	13.0
Oxidation (PA)	%	198	188	184	170



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	98	95	94	63
Sulfation (PA)	%	112	107	106	104
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.1
Silicon	ppm	5	5	5	6
Sodium	ppm	3	1	<1	<1
Potassium	ppm	2	1	2	0



WEAR METALS

Iron	ppm	5	6	5	3
Copper	ppm	1	2	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	3	3	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	47	48	49	48
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1008	1047	1057	1100
Magnesium	ppm	872	895	899	891
Zinc	ppm	1171	1225	1210	1226
Phosphorus	ppm	959	1019	1098	1138
Barium	ppm	<1	<1	0	0
Boron	ppm	54	53	58	114

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: 5694482
Signed: Kevin Marson
Report Date: 07 Dec 2023



GRAPHS

