

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 082257-1203 - Diesel Engine

Sample No: LH0161853

Oil Type: PETRO CANADA 10W40



Fortress Specialty Cellulose Inc
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 Thurso, QC
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Sample Information

Sample Number	LH0161853	LH0151741	LH0143955	LH0140760
Sample Date	25 Feb 2020	17 Sep 2019	22 May 2019	24 Apr 2019
Machine Hours	16411	0	14629	14288
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	14.2	14.1	14.6	11.8
Oxidation (PA)	%	61	65	62	73



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.8	0.3	0.7
Nitration (PA)	%	74	86	69	97
Sulfation (PA)	%	63	62	56	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	8	8
Sodium	ppm	<1	<1	1	2
Potassium	ppm	<1	<1	<1	<1



Wear Metals

Iron	ppm	12	12	8	19
Copper	ppm	1	2	1	3
Lead	ppm	<1	<1	1	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	60	63	62	62
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1076	1100	1051	1067
Magnesium	ppm	1022	1033	989	1004
Zinc	ppm	1278	1294	1251	1278
Phosphorus	ppm	1052	1090	1042	1037
Barium	ppm	<1	<1	0	0
Boron	ppm	2	1	<1	<1

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 le l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: FOR451THU
 Unique No: 5008157
 Signed: Wes Davis
 Report Date: 02 Mar 2020

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Graphs

