

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 065595-1007 - Diesel Engine

Sample No: LHMC126132  
 Oil Type: LIEBHERR 5W30



**DOMTAR PULP AND PAPER**  
 301 POINT BASSE AVE  
 NEKOOSA, WI  
 US 54457  
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#### Sample Information

Sample Number	LHMC126132	LHMC88793	LHMC88803	LHMC84295
Sample Date	06 Sep 2018	20 Sep 2017	22 Aug 2017	01 Aug 2017
Machine Hours	17429	13216	12901	12643
Oil Hours	0	315	300	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 100°C	cSt	12.86	13.11	13.05	12.79
Oxidation (PA)	%	79	68	64	60



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.6	0.5	0.5
Nitration (PA)	%	52	58	50	50
Sulfation (PA)	%	60	61	53	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	3	4
Sodium	ppm	4	4	2	4
Potassium	ppm	<1	2	1	2



#### Wear Metals

Iron	ppm	7	7	5	6
Copper	ppm	<1	2	<1	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	6	<1	6
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	39	43	36	38
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1645	1824	1559	1704
Magnesium	ppm	470	507	427	466
Zinc	ppm	815	881	779	851
Phosphorus	ppm	700	697	690	759
Barium	ppm	0	0	0	0
Boron	ppm	39	38	36	38

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DOMWAU  
 Unique No: 8329148  
 Signed: Don Baldrige  
 Report Date: 13 Sep 2018



### Graphs

