

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 065595-1007 - Diesel Engine

Sample No: LH0267142

Oil Type: DIESEL ENGINE OIL SAE 15W40



#### DOMTAR PULP AND PAPER

301 POINT BASSE AVE  
NEKOOSA, WI  
US 54457

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#### Sample Information

Sample Number	LH0267142	LHMC126132	LHMC88793	LHMC88803
Sample Date	18 Apr 2024	06 Sep 2018	20 Sep 2017	22 Aug 2017
Machine Hours	55376	17429	13216	12901
Oil Hours	0	0	315	300
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 100°C	cSt	12.2	12.86	13.11	13.05
Base Number (BN)	mg KOH/g	10.3	---	---	---
Oxidation (PA)	%	69	79	68	64



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.4	0.6	0.5
Nitration (PA)	%	45	52	58	50
Sulfation (PA)	%	60	60	61	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.2	<1.0	<1.0	<1.0
Silicon	ppm	9	2	4	3
Sodium	ppm	1	4	4	2
Potassium	ppm	0	<1	2	1



#### Wear Metals

Iron	ppm	4	7	7	5
Copper	ppm	0	<1	2	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	6	<1
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	37	39	43	36
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	2094	1645	1824	1559
Magnesium	ppm	466	470	507	427
Zinc	ppm	1052	815	881	779
Phosphorus	ppm	884	700	697	690
Barium	ppm	0	0	0	0
Boron	ppm	61	39	38	36

#### Diagnosis

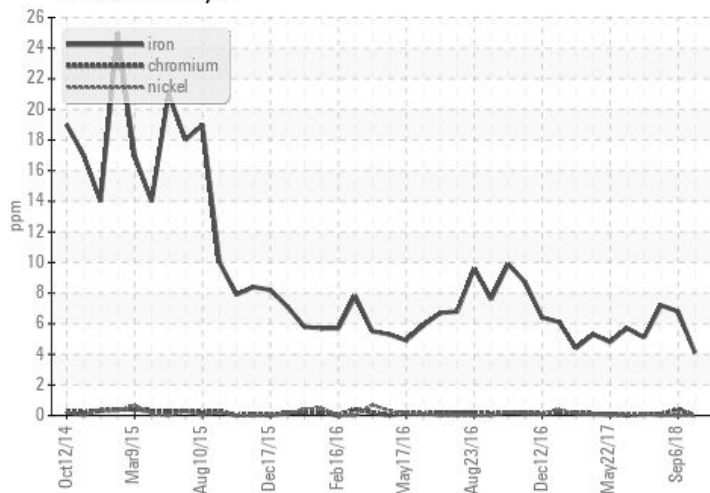
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: DOMWAU  
Unique No: 10995167  
Signed: Wes Davis  
Report Date: 29 Apr 2024

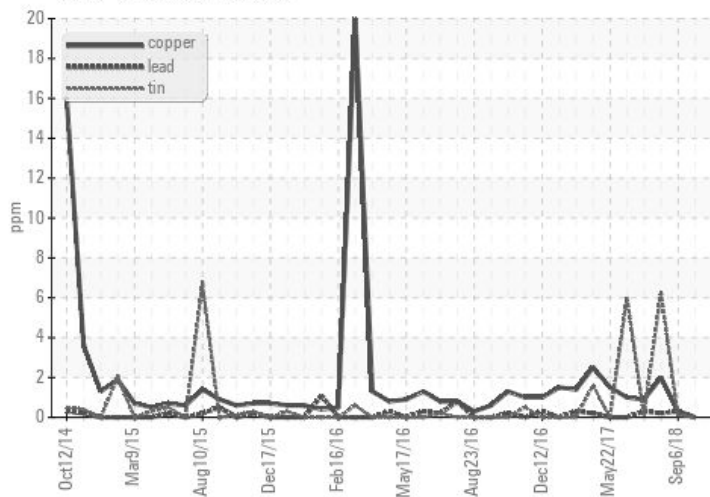


### Graphs

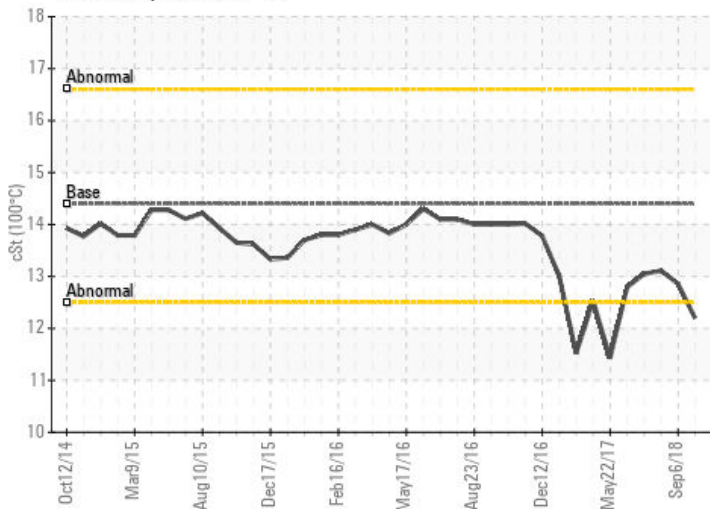
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

