

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934CHD 064161-1007 - Diesel Engine

Sample No: LH0288186

Oil Type: MOBIL 1 FORMULA 0W 40



Weyerhaeuser
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 Kenora, ON
 CA P9N 3X8
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Sample Information

Sample Number	LH0288186	LH0177372	LH0113471	LH0070897
Sample Date	16 Apr 2024	23 Jun 2021	16 Jul 2017	30 Jan 2014
Machine Hours	35747	34900	26000	6000
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	---	---	68.6	---
Visc @ 100°C	cSt	12.9	12.1	10.9	14.2
Viscosity Index (VI)	Scale	---	---	149	---
Oxidation (PA)	%	61	76	36	57



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.8	1	0.3
Nitration (PA)	%	50	56	51	50
Sulfation (PA)	%	54	69	56	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.2	0.0	<1.0
Silicon	ppm	5	3	2	2
Sodium	ppm	3	2	1	0
Potassium	ppm	<1	<1	<1	2



Wear Metals

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



Additives

Calcium	ppm	1998	1711	1324	2360
Magnesium	ppm	17	8	6	14
Zinc	ppm	997	978	861	1271
Phosphorus	ppm	858	790	703	941
Barium	ppm	1	0	<1	0
Boron	ppm	4	1	2	<1

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: WEY100KEN
Unique No: 5763265
Signed: Wes Davis
Report Date: 19 Apr 2024



Graphs

