

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924C056977-1049 - Diesel Engine

Sample No: LH06131712

Oil Type: DIESEL ENGINE OIL SAE 15W40



RECO EQUIPMENT INC.
1615 JP HENESSY DRIVE
LAVERGNE, TN
US 37086
Contact: KEN FISCHER

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F:

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Sample Information

Sample Number	LH06131712	LHMC79094	LHMC71327	LHMC63815
Sample Date	21 Mar 2024	05 Oct 2016	16 Aug 2014	01 Jul 2014
Machine Hours	16385	10210	7190	6926
Oil Hours	0	0	0	301
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	14.0	14.06	14.96	15.61
Base Number (BN)	mg KOH/g	6.8	---	---	---
Oxidation (PA)	%	67	44	40	52



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	2.2	0.5	0.3	0.7
Nitration (PA)	%	83	42	42	50
Sulfation (PA)	%	64	50	44	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	8	8	8
Sodium	ppm	4	3	2	1
Potassium	ppm	3	0	0	5



Wear Metals

Iron	ppm	49	8	5	6
Copper	ppm	17	3	1	2
Lead	ppm	4	0	2	2
Tin	ppm	2	0	0	<1
Aluminum	ppm	3	2	1	1
Chromium	ppm	1	0	<1	<1
Molybdenum	ppm	93	79	0	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	<1	<1	2
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	1538	1416	2301	2243
Magnesium	ppm	1347	350	8	<1
Zinc	ppm	1746	1102	1168	964
Phosphorus	ppm	1416	965	1008	962
Barium	ppm	0	0	0	0
Boron	ppm	9	357	27	20

Depot: RECLAV
Unique No: 10951177
Signed: Don Baldrige
Report Date: 02 Apr 2024



Graphs

