

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R926 1715-51969 - Diesel Engine

Sample No: LH0202122

Oil Type: MOBIL 1 5W30



Sample Information

Sample Number	LH0202122	LH0202116	LH0202115	LH0202114
Sample Date	03 May 2024	02 Nov 2023	22 Jun 2023	10 Apr 2023
Machine Hours	2247	2002	1750	1507
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	MARGINAL	NORMAL

DIEHL AND NUEMAIER

5466 NORWAY GROVE SCHOOL RD
DE FOREST, WI
US 53532
Contact: ELLIOT DIEHL
diehlneumaier@yahoo.com
T: (608)846-4824
F: (608)846-2077



Oil Condition

Visc @ 100°C	cSt	10.1	11.6	11.9	12.3
Base Number (BN)	mg KOH/g	7.3	5.6	6.4	5.9
Oxidation (PA)	%	73	72	65	55



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	71	80	76	68
Sulfation (PA)	%	58	64	61	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	12	10	11
Sodium	ppm	0	4	2	<1
Potassium	ppm	3	2	2	3



Wear Metals

Iron	ppm	5	8	7	5
Copper	ppm	10	57	51	30
Lead	ppm	<1	1	0	0
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	4	2	2	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	3	8	7	7
Nickel	ppm	<1	0	<1	0
Titanium	ppm	9	69	69	72
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



Additives

Calcium	ppm	1224	1352	1368	1323
Magnesium	ppm	799	665	706	637
Zinc	ppm	829	1090	1158	1089
Phosphorus	ppm	677	899	918	913
Barium	ppm	0	2	<1	3
Boron	ppm	67	47	78	128

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 suitable for further service.

Depot: DIEDEF
Unique No: 11029435
Signed: Wes Davis
Report Date: 14 May 2024



Graphs

