

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R926 1715-51969 - Diesel Engine

Sample No: LH0202116

Oil Type: MOBIL 1 5W30



#### SAMPLE INFORMATION

Sample Number	LH0202116	LH0202115	LH0202114	LH0202113
Sample Date	02 Nov 2023	22 Jun 2023	10 Apr 2023	09 Jan 2023
Machine Hours	2002	1750	1507	1272
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	MARGINAL	NORMAL	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	11.6	11.9	12.3	12.8
Base Number (BN)	mg KOH/g	5.6	6.4	5.9	7.7
Oxidation (PA)	%	72	65	55	51



#### CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	80	76	68	67
Sulfation (PA)	%	64	61	49	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	10	11	10
Sodium	ppm	4	2	<1	2
Potassium	ppm	2	2	3	<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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



#### WEAR METALS

Iron	ppm	8	7	5	4
Copper	ppm	57	51	30	8
Lead	ppm	1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	0	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	8	7	7	8
Nickel	ppm	0	<1	0	0
Titanium	ppm	69	69	72	74
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



#### ADDITIVES

Calcium	ppm	1352	1368	1323	1359
Magnesium	ppm	665	706	637	664
Zinc	ppm	1090	1158	1089	1054
Phosphorus	ppm	899	918	913	896
Barium	ppm	2	<1	3	0
Boron	ppm	47	78	128	143

Depot: DIEDEF  
Unique No: 10737093  
Signed: Angela Borella  
Report Date: 13 Nov 2023



### GRAPHS

