

# LIEBHERR

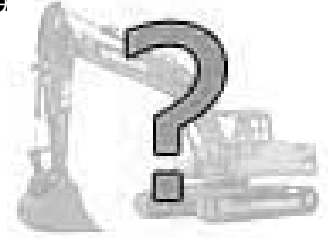
## CONSTRUCTION EQUIPMENT



### [[MALVERN MINERALS]] FORKLIFT NISSIAN APIF2-9U24393 9U24393 -Die

Sample No: LHMC121712

Oil Type: NOT GIVEN



### SAMPLE INFORMATION

Sample Number	LHMC121712	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	250	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

### LIFT TRUCK SERVICE

12829 INTERSTATE 30

LITTLE ROCK, AR

US 72209

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### OIL CONDITION

Visc @ 100°C	cSt	9.8	---	---	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	38	---	---	---



### CONTAMINATION

Soot %	%	0.2	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	37	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.4	---	---	---
Silicon	ppm	78	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	7	---	---	---



### WEAR METALS

Iron	ppm	271	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	7	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	29	---	---	---
Chromium	ppm	4	---	---	---
Molybdenum	ppm	42	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	5	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	984	---	---	---
Magnesium	ppm	786	---	---	---
Zinc	ppm	1179	---	---	---
Phosphorus	ppm	977	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	6	---	---	---

### Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. Metal levels are typical for a new component breaking in. Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LIFLIT

Unique No: 10493456

Signed: Jonathan Hester

Report Date: 01 Jun 2023



### GRAPHS

