

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA 230 145963-1513 -1 Differential

Sample No: LHMC91483

Oil Type: LIEBHERR GEAR MF 80W



NUECES POWER EQUIPMENT
 7667 N SAM HOUSTON PKWY EAST
 HUMBLE, TX
 US 77396
 Contact: JOHN GUERRA
 jguerra@npetex.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LHMC91483	---	---	---
Sample Date	22 Jun 2023	---	---	---
Machine Hours	419	---	---	---
Oil Hours	419	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 63.3	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Silicon	ppm	● 84	---	---	---
Sodium	ppm	● 24	---	---	---
Potassium	ppm	● 0	---	---	---



WEAR METALS

Iron	ppm	● 296	---	---	---
Copper	ppm	● 289	---	---	---
Lead	ppm	● 3	---	---	---
Tin	ppm	● 10	---	---	---
Aluminum	ppm	● 12	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 17	---	---	---
Titanium	ppm	● 1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 34	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

Calcium	ppm	● 3203	---	---	---
Magnesium	ppm	● 15	---	---	---
Zinc	ppm	● 1319	---	---	---
Phosphorus	ppm	● 1137	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 138	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

Depot: NUEHUM
 Unique No: 10548859
 Signed: Don Baldrige
 Report Date: 11 Jul 2023



GRAPHS

