

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA 230 145963-1513 - Rear Differential

Sample No: LHMC91482

Oil Type: LIEBHERR GEAR MF 80W



SAMPLE INFORMATION

Sample Number	LHMC91482	LHMC91486	---	---
Sample Date	22 Jun 2023	13 Jun 2023	---	---
Machine Hours	419	0	---	---
Oil Hours	419	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	63.1	61.1	---	---
-------------	-----	------	------	-----	-----



CONTAMINATION

Water	%	---	0.395	---	---
Silicon	ppm	34	29	---	---
Sodium	ppm	22	18	---	---
Potassium	ppm	0	0	---	---



WEAR METALS

Iron	ppm	212	199	---	---
Copper	ppm	107	71	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	6	4	---	---
Aluminum	ppm	6	4	---	---
Chromium	ppm	5	4	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	8	5	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	85	48	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	3377	3517	---	---
Magnesium	ppm	17	12	---	---
Zinc	ppm	1362	1505	---	---
Phosphorus	ppm	1173	1231	---	---
Barium	ppm	0	0	---	---
Boron	ppm	143	113	---	---

NUECES POWER EQUIPMENT
 7667 N SAM HOUSTON PKWY EAST
 HUMBLE, TX
 US 77396
 Contact: SARKES GONZALEZ
 sgonzalez@npetex.com
 T: (713)247-0066
 F: (713)941-2262

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NUEHUM
 Unique No: 10548860
 Signed: Don Baldrige
 Report Date: 11 Jul 2023



GRAPHS

