

LIEBHERR

CONSTRUCTION EQUIPMENT



135024 - Grease

Sample No: LH0264486

Oil Type: NUG 12



Sample Information

Sample Number	LH0264486	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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 HOUSTON, TX
 US 77028
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 T:
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	385	---	---	---
Sodium	ppm	43	---	---	---
Potassium	ppm	58	---	---	---

Diagnosis

Re-sample to verify the actual grease condition. Purge old grease if still abnormal and monitor the trend of iron level. Please submit a sample of the new (unused) oil to establish a baseline. The iron level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. {not applicable}



Wear Metals

PQ		11008	---	---	---
Iron	ppm	3387	---	---	---
Copper	ppm	8	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	100	---	---	---
Chromium	ppm	41	---	---	---
Molybdenum	ppm	17	---	---	---
Nickel	ppm	6	---	---	---
Titanium	ppm	16	---	---	---
Silver	ppm	8	---	---	---
Manganese	ppm	33	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	1254	---	---	---
Magnesium	ppm	81	---	---	---
Zinc	ppm	3420	---	---	---
Phosphorus	ppm	1910	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	414	---	---	---

Depot: LIEBHERRNZ
Unique No: 10942496
Signed: Doug Bogart
Report Date: 11 Apr 2024



Graphs

