

LIEBHERR

CONSTRUCTION EQUIPMENT



[(369352)] 137 240-1215 - Diesel Engine

Sample No: LH0239419

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0239419	LH0251391	LH0239267	---
Sample Date	12 Jul 2023	25 Jan 2023	12 Aug 2022	---
Machine Hours	1548	1012	536	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

American Iron and Metal
 4350 HARVESTER ROAD
 BURLINGTON, ON
 CA L7L 5S4
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	11.8	---
Oxidation (PA)	%	69	87	223	---

T:
F:



CONTAMINATION

Soot %	%	0	0	0	---
Nitration (PA)	%	71	75	108	---
Sulfation (PA)	%	55	65	117	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.2	---
Silicon	ppm	6	7	9	---
Sodium	ppm	2	2	3	---
Potassium	ppm	<1	<1	3	---

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	5	10	---
Copper	ppm	6	41	214	---
Lead	ppm	2	2	8	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	2	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	58	56	45	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1044	1111	1342	---
Magnesium	ppm	977	953	910	---
Zinc	ppm	1197	1138	799	---
Phosphorus	ppm	1053	995	642	---
Barium	ppm	<1	3	25	---
Boron	ppm	4	6	71	---

Depot: AIMBUR
 Unique No: 5606684
 Signed: Wes Davis
 Report Date: 13 Jul 2023



GRAPHS

