

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS855 188213 - Diesel Engine

Sample No: LH0277447

Oil Type: PETRO CANADA 10W40



C & M McNally
 4380 S Service Rd,
 Burlington, ON
 CA L7L 5Y6
 Contact:

T: (905)332-3990
 F: (905)332-3991



SAMPLE INFORMATION

Sample Number	LH0277447	---	---	---
Sample Date	28 Oct 2023	---	---	---
Machine Hours	29010	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.3	---	---	---
Oxidation (PA)	%	93	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	2.1	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	<1	---	---	---



WEAR METALS

Iron	ppm	13	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	65	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1556	---	---	---
Magnesium	ppm	1004	---	---	---
Zinc	ppm	1365	---	---	---
Phosphorus	ppm	1104	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	18	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: MCNBUR
Unique No: 5670095
Signed: Kevin Marson
Report Date: 02 Nov 2023



GRAPHS

