

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R940 056182 - Diesel Engine

Sample No: LH0289859

Oil Type: PETRO CANADA DURON UHP 5W30



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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Sample Information

Sample Number	LH0289859	LH0279229	---	---
Sample Date	30 Apr 2024	03 Jan 2024	---	---
Machine Hours	1000	571	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



Oil Condition

Visc @ 100°C	cSt	11.4	11.8	---	---
Oxidation (PA)	%	89	195	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	83	101	---	---
Sulfation (PA)	%	61	106	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	0.4	1.3	---	---
Silicon	ppm	6	9	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	3	9	---	---



Wear Metals

Iron	ppm	7	14	---	---
Copper	ppm	40	180	---	---
Lead	ppm	<1	6	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	58	46	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	916	1509	---	---
Magnesium	ppm	1120	902	---	---
Zinc	ppm	1185	889	---	---
Phosphorus	ppm	997	708	---	---
Barium	ppm	3	24	---	---
Boron	ppm	42	70	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5775418
 Signed: Kevin Marson
 Report Date: 10 May 2024



Graphs

