

LIEBHERR

CONSTRUCTION EQUIPMENT



[LIEBHERR RENTAL UNIT] 115454 - Diesel Engine

Sample No: LH0286440

Oil Type: PETRO CANADA DURON UHP 5W30



Sample Information

Sample Number	LH0286440	LH0250373	---	---
Sample Date	01 Jun 2024	04 Oct 2023	---	---
Machine Hours	3395	3030	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

LIEBHERR CANADA LTD.

10374 267 ST.

ACHESON, AB

CA T7X 6A2

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Oil Condition

Visc @ 40°C	cSt	70.3	---	---
Visc @ 100°C	cSt	11.8	11.3	---
Viscosity Index (VI)	Scale	164	---	---
Oxidation (PA)	%	78	68	---

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.



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	76	63	---	---
Sulfation (PA)	%	56	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	4	4	---	---
Potassium	ppm	<1	<1	---	---



Wear Metals

Iron	ppm	3	3	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	61	58	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	840	847	---	---
Magnesium	ppm	1133	1089	---	---
Zinc	ppm	1213	1197	---	---
Phosphorus	ppm	1029	1010	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	46	38	---	---

Depot: LIESPR

Unique No: 5798410

Signed: Wes Davis

Report Date: 10 Jun 2024



Graphs

