

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340260)] LIEBHERR LH40C 127925-1527 - Diesel Engine

Sample No: LH0285017

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0285017	LH0277658	LH0270151	LH0251578
Sample Date	15 Feb 2024	07 Dec 2023	27 Sep 2023	05 Apr 2023
Machine Hours	7504	7010	6592	5459
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CANADA IRON AND METAL CO. LTD.
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OIL CONDITION

Visc @ 40°C	cSt	---	91.3	---	---
Visc @ 100°C	cSt	13.7	13.5	13.4	13.4
Viscosity Index (VI)	Scale	---	149	---	---
Oxidation (PA)	%	63	62	68	64

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	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	61	60	68	68
Sulfation (PA)	%	53	51	53	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	<1	2	2	1
Potassium	ppm	<1	<1	0	0



WEAR METALS

Iron	ppm	3	3	3	3
Copper	ppm	<1	2	2	2
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	1	<1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	56	56	59	59
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1099	1163	1055	1127
Magnesium	ppm	946	915	974	944
Zinc	ppm	1173	1179	1200	1169
Phosphorus	ppm	1008	961	997	1068
Barium	ppm	<1	<1	<1	0
Boron	ppm	2	3	3	5

Depot: CAN353TOR
 Unique No: 5733316
 Signed: Wes Davis
 Report Date: 16 Feb 2024



GRAPHS

