

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 040916-1287 - Diesel Engine

Sample No: LH0104287

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0104287	LH0256716	LH0162339	LH0186887
Sample Date	29 Sep 2023	20 Mar 2023	13 Dec 2022	11 Mar 2021
Machine Hours	11118	10626	10041	7578
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIDEAU BULK TERMINALS INC.

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OIL CONDITION

Visc @ 100°C	cSt	14.1	13.9	14.2	14.2
Oxidation (PA)	%	57	51	59	63



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.4
Nitration (PA)	%	58	56	61	69
Sulfation (PA)	%	52	57	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	6
Sodium	ppm	4	3	3	9
Potassium	ppm	0	<1	<1	2

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	6	8	6	9
Copper	ppm	2	1	2	8
Lead	ppm	<1	1	1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	4	4	4
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	62	60	58	58
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	1	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1090	1120	1138	1074
Magnesium	ppm	996	982	972	995
Zinc	ppm	1235	1217	1206	1291
Phosphorus	ppm	1053	1105	1089	1006
Barium	ppm	<1	0	0	<1
Boron	ppm	2	2	<1	2

Depot: RIDOTT

Unique No: 5656107

Signed: Kevin Marson

Report Date: 05 Oct 2023



GRAPHS

