

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(351064)] 122398-1216 - Diesel Engine

Sample No: LH0288336

Oil Type: PETRO CANADA SUPREME 5W30



#### Sample Information

Sample Number	LH0288336	LH0281254	LH0276908	LH0202595
Sample Date	27 May 2024	07 Feb 2024	31 Oct 2023	20 Oct 2021
Machine Hours	0	5387	5000	584
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### American Iron and Metal

75 Steel City Court  
Hamilton, ON  
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Contact: Heavy Equipment  
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T: (905)547-5533  
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#### Oil Condition

Visc @ 100°C	cSt	11.6	11.8	12.8	11.3
Oxidation (PA)	%	85	77	70	196



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	88	78	76	92
Sulfation (PA)	%	59	56	55	111
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	21	6	6	11
Sodium	ppm	4	4	2	3
Potassium	ppm	4	<1	<1	5

#### 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	7	6	4	19
Copper	ppm	2	2	2	158
Lead	ppm	0	<1	2	10
Tin	ppm	0	0	<1	2
Aluminum	ppm	2	2	1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	58	55	59	45
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	0	0	2
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	862	848	1049	1323
Magnesium	ppm	1141	1079	994	923
Zinc	ppm	1255	1170	1206	803
Phosphorus	ppm	996	1035	1030	625
Barium	ppm	<1	0	0	28
Boron	ppm	26	29	2	70

Depot: AMEHAM  
Unique No: 5802083  
Signed: Wes Davis  
Report Date: 28 Jun 2024



### Graphs

