

LIEBHERR

CONSTRUCTION EQUIPMENT



11164-1217 - Diesel Engine

Sample No: LH0269652

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0269652	LH0260356	LH0246738	---
Sample Date	12 Dec 2023	13 Jun 2023	11 Jan 2023	---
Machine Hours	6995	4735	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

American Iron and Metal

60 SIMMONDS DRIVE

DARTMOUTH, NS

CA B3B 1P6

Contact: Pierre Paille



OIL CONDITION

Visc @ 100°C	cSt	11.4	11.4	11.2	---
Oxidation (PA)	%	84	92	89	---

T: (902)468-9664

F: (902)468-9658



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	91	97	103	---
Sulfation (PA)	%	60	64	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	7	8	---
Sodium	ppm	4	4	6	---
Potassium	ppm	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	5	6	5	---
Copper	ppm	2	3	2	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	2	3	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	56	58	59	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	<1	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	763	814	853	---
Magnesium	ppm	1055	1118	1091	---
Zinc	ppm	1126	1178	1179	---
Phosphorus	ppm	940	1044	1024	---
Barium	ppm	0	0	0	---
Boron	ppm	23	20	16	---

Depot: AIMDAR

Unique No: 5708881

Signed: Wes Davis

Report Date: 10 Jan 2024



GRAPHS

