

LIEBHERR

CONSTRUCTION EQUIPMENT



VOLVO L90 66714 - Diesel Engine

Sample No: LH0269608

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0269608	LH0259967	LH0238492	LH0238527
Sample Date	22 Sep 2023	01 Jul 2023	26 Jan 2023	23 Sep 2022
Machine Hours	2620	2167	1554	985
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Quality Concrete Inc.
 35 Lafarge Lane
 Folly Lake, NS
 CA B0M 1M0
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	11.6	11.4	11.8	11.4
Oxidation (PA)	%	72	76	76	84

T:
F:



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	70	78	75	74
Sulfation (PA)	%	55	56	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	4	5	5	4
Potassium	ppm	<1	1	2	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	4	5	5	6
Copper	ppm	2	3	3	4
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	62	60	56
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	835	844	864	870
Magnesium	ppm	1117	1145	1140	1107
Zinc	ppm	1228	1223	1239	1172
Phosphorus	ppm	1032	1099	1101	1078
Barium	ppm	<1	<1	<1	1
Boron	ppm	29	31	34	31

Depot: QUAFOL
Unique No: 5646481
Signed: Wes Davis
Report Date: 27 Sep 2023



GRAPHS

