

LIEBHERR

CONSTRUCTION EQUIPMENT



VOLVO L90 66714 - Diesel Engine

Sample No: LH0259967

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0259967	LH0238492	LH0238527	VC132705
Sample Date	01 Jul 2023	26 Jan 2023	23 Sep 2022	13 Feb 2005
Machine Hours	2167	1554	985	499
Oil Hours	0	0	0	255
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	11.4	11.8	11.4	10.2
Oxidation (PA)	%	76	76	84	40

T:
F:



CONTAMINATION

Soot %	%	0	0	0	0.2
Nitration (PA)	%	78	75	74	0
Sulfation (PA)	%	56	59	60	20
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.0
Silicon	ppm	6	6	7	24
Sodium	ppm	5	5	4	4
Potassium	ppm	1	2	5	0

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	5	6	46
Copper	ppm	3	3	4	10
Lead	ppm	<1	0	<1	4
Tin	ppm	<1	<1	<1	4
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	62	60	56	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	844	864	870	2615
Magnesium	ppm	1145	1140	1107	150
Zinc	ppm	1223	1239	1172	1100
Phosphorus	ppm	1099	1101	1078	1014
Barium	ppm	<1	<1	1	1
Boron	ppm	31	34	31	4

Depot: QUAFOL
 Unique No: 5605438
 Signed: Wes Davis
 Report Date: 07 Jul 2023



GRAPHS

