

LIEBHERR

CONSTRUCTION EQUIPMENT



VOLVO L180E 9059 - Diesel Engine

Sample No: LH0224005

Oil Type: DIESEL ENGINE OIL SAE 10W30



2399 Route 155 Sud
La Tuque, QC
CA G9X 3N8
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SAMPLE INFORMATION

Sample Number	LH0224005	LH0199390	LH0191670	LH0170773
Sample Date	10 May 2023	22 Jul 2021	20 Apr 2021	31 Aug 2020
Machine Hours	54259	50700	50000	48867
Oil Hours	0	0	0	636
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	10.7	10.7	10.6	10.7
Oxidation (PA)	%	63	56	60	60



CONTAMINATION

Soot %	%	0.5	0.7	0.5	0.7
Nitration (PA)	%	64	73	79	78
Sulfation (PA)	%	58	59	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.9
Silicon	ppm	4	3	4	3
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	2	<1	<1



WEAR METALS

Iron	ppm	10	11	9	9
Copper	ppm	1	2	2	2
Lead	ppm	3	12	4	6
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	32	81	76
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1631	2135	2005	2013
Magnesium	ppm	323	33	62	84
Zinc	ppm	1076	1038	1132	1155
Phosphorus	ppm	961	924	942	1002
Barium	ppm	0	0	0	<1
Boron	ppm	58	21	49	36

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: COOLAT
Unique No: 5604954
Signed: Wes Davis
Report Date: 05 Jul 2023



GRAPHS

