

LIEBHERR

CONSTRUCTION EQUIPMENT



[ELG] LIEBHERR A924C 036737-1049 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA 10W30



SAMPLE INFORMATION

Sample Number	LH	LH0086806	LH0083233	LH0083245
Sample Date	14 Mar 2024	12 Dec 2014	29 Aug 2014	24 Jul 2014
Machine Hours	17745	11613	11116	10800
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ELG Canada

4375 CORPORATE DRIVE
BURLINGTON, ON
CA L7L 5P7
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.9	11.9	11.8	12.0
Oxidation (PA)	%	86	60	61	59

T:
F: (905)335-9687



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.9	1.3	0.9
Nitration (PA)	%	93	61	63	56
Sulfation (PA)	%	79	65	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	7	7
Sodium	ppm	8	3	3	3
Potassium	ppm	10	0	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	38	17	20	14
Copper	ppm	18	23	114	77
Lead	ppm	22	2	5	4
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	4	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2576	2430	2454	2447
Magnesium	ppm	89	9	9	8
Zinc	ppm	1303	1238	1245	1220
Phosphorus	ppm	1128	1065	1047	1035
Barium	ppm	<1	<1	<1	<1
Boron	ppm	39	2	<1	1

Depot: STR437BUR
Unique No: 5747414
Signed: Kevin Marson
Report Date: 15 Mar 2024



GRAPHS

