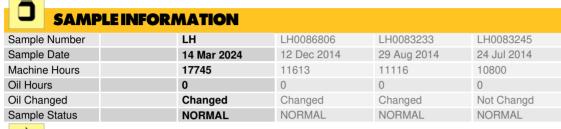
LIEBHERR

CONSTRUCTION EQUIPMENT

[ELG] LIEBHERR A924C 036737-1049 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA 10W30



OIL CO	NOITION				
Visc @ 100°C	cSt	13.9	O 11.9	11.8	O 12.0
Oxidation (PA)	%	86	60	6 1	O 59

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Soot %	%	0.6	0.9	1.3	0.9	
Nitration (PA)	%	93	6 1	6 3	56	
Sulfation (PA)	%	79	6 5	6 5	O 62	
Glycol	%	NEG	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	<1.0	
Silicon	ppm	5	7	7	O 7	
Sodium	ppm	8	3	3	3	
Potassium	mag	10	0	0<1	0	

O WEA					
₩ WEA	R METAL	.S			
Iron	ppm	38	O 17	2 0	O 14
Copper	ppm	18	2 3	O 114	77
Lead	ppm	22	O 2	O 5	4
Tin	ppm	1	O <1	O <1	O <1
Aluminum	ppm	4	O 2	O 2	O 2
Chromium	ppm	○ <1	O <1	O <1	O <1
Molybdenum	ppm	53	O <1	<1	O <1
Nickel	ppm	○ <1	O <1	O <1	O <1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	O <1	<1	O <1
Vanadium	ppm	0	0	0	0

ADDITIVES						
Calcium	ppm	2576	O 2430	O 2454	O 2447	
Magnesium	ppm	89	9	9	0 8	
Zinc	ppm	1303	1238	O 1245	O 1220	
Phosphorus	ppm	1128	O 1065	O 1047	O 1035	
Barium	ppm	O <1	O <1	<1	O <1	
Boron	ppm	39	O 2	 <1	O 1	



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

Γ: - (005\2

F: (905)335-9687

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.

Depot:STR437BURUnique No:5747414Signed:Kevin MarsonReport Date:15 Mar 2024

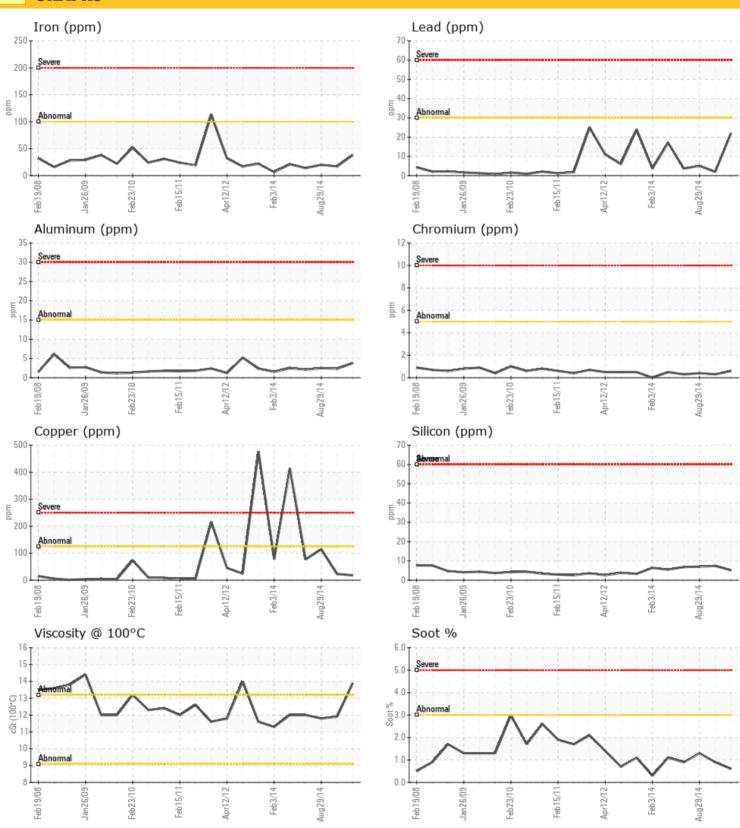
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



Report Id: STR437BUR [WCAMIS] 02622295 (Generated: 03/18/2024 08:52:55) Rev: 1

Submitted By: Eric Leblond