LIEBHERR

CONSTRUCTION EQUIPMENT



C12.02.90047 - Diesel Engine

Sample No: LH0274684

Oil Type: CONOCO PHILLIPS GUARDOL ECT 15W40

SAM	PLE INFO	DRMATION		
Sample Number		LH0274684	 	
Sample Date		16 Sep 2023	 	
Machine Hours		45472	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
	ONDITIO			
Visc @ 100°C	cSt	12.4	 	
Oxidation (PA)	%	47	 	
	TAMINA			
Soot %	%	0	 	
Nitration (PA)	%	42	 	
Sulfation (PA)	%	49	 	
Glycol	%	NEG	 	
Fuel	%	0.9	 	
Silicon	ppm	10	 	
Sodium	ppm	22	 	
Potassium	ppm	2	 	
	R META			
Iron	ppm	13	 	
Copper	ppm	0 4	 	
Lead 	ppm	2	 	
Tin	ppm	0 <1	 	
Aluminum	ppm	01	 	
Chromium	ppm	0 <1	 	
Molybdenum	ppm	37	 	
Nickel	ppm	0	 	
Titanium	ppm	2	 	
Silver	ppm	O <1	 	
Manganese	ppm	0 <1	 	
Vanadium	ppm	0	 	

LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Jeff Carter

jeff.carter@liebherr.com T: (905)319-9222 F: (905)319-6622

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot:REMANUnique No:5655654Signed:Kevin MarsonReport Date:05 Oct 2023

Contact/Location: Jeff Carter - REMAN

1591

556

1108

965

41

34

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

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GRAPHS

