LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 074359-1760 - Diesel Engine

Sample No: LH0271281

Oil Type: PETRO CANADA 10W40

Sample Number		LH0271281	LH0281086	LH0271270	
Sample Date		23 May 2024	10 Jan 2024	06 Nov 2023	
/achine Hours		1428	0	562	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
	ondition of the state of the st		O 12.7	O 11 7	
OHC.					
Visc @ 100°C	cSt	13.5	O 13.7	O 11.7	
0 1 1 11 (0 4)	- 1				
Oxidation (PA)	%	61	67	204	
Oxidation (PA)	%	61	67	204	
-	aminati		67	204	
Cont			NEG	204 NEG	
Cont Water	aminati	on			
Cont Water Soot %	<mark>aminati</mark>	ON NEG	NEG	NEG	
Water Soot % Nitration (PA)	amination %	NEG	NEG 0 0	NEG 0	
Water Soot % Nitration (PA) Sulfation (PA)	amination %	NEG 0 54	NEG 0 0 49	NEG 0 91	
Water Soot % Nitration (PA) Sulfation (PA) Glycol	amination % % % %	NEG 0 54 52	NEG 0 49 56	NEG 0 91 110	
Water Soot % Nitration (PA) Sulfation (PA) Glycol Fuel	aminati % % % % %	NEG 0 54 52 NEG	NEG 0 0 49 56 NEG	NEG 0 0 91 110 NEG	
Oxidation (PA) Water Soot % Nitration (PA) Sulfation (PA) Glycol Fuel Silicon Sodium	aminati % % % % % % % %	NEG 0 54 52 NEG <1.0	NEG 0 0 49 56 NEG <1.0	NEG 0 0 91 110 NEG <1.0	

000.0	pp	.	0 .	_	
Potassium	ppm	0	O 0	O 2	
-					
West	Metals				
Treat	Micials				
Iron	ppm	4	3	8	
Copper	ppm	6	20	O 166	
Lead	ppm	0 <1	O <1	7	
Tin	ppm	0	O <1	O <1	
Aluminum	ppm	0 <1	O 2	3	
Chromium	ppm	0 <1	O 0	O <1	
Molybdenum	ppm	57	55	44	
Nickel	ppm	0	O 0	0	
Titanium	ppm	0	0	O 0	
Silver	ppm	0	O 0	O <1	
Manganese	ppm	0 <1	0	3	
Vanadium	ppm	0	0	0	

Additives						
Calcium	ppm	1069	O 1033	O 1290		
Magnesium	ppm	938	928	○ 894		
Zinc	ppm	1188	O 1110	839		
Phosphorus	ppm	978	985	O 703		
Barium	ppm	1	O 2	2 3		
Boron	ppm	2	0 8	89		



RICHMOND STEEL RECYCLING

11760 MITCHELL ROAD RICHMOND, BC CA V6V 1V8

Contact: Aaron Kaetler AKaetler@richmondsteel.ca

T

F: (604)324-8617

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.

Depot:RIC117RICUnique No:5800046Signed:Wes DavisReport Date:18 Jun 2024

LIEBHERR







Graphs

