LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH80M 1218-157090 - Diesel Engine

Sample No: LH0282869

Oil Type: DIESEL ENGINE OIL SAE 15W40

ample Number		LH0282869	LH0282894	LH0280580	
Sample Date		28 Mar 2024	19 Mar 2024	28 Feb 2024	
Machine Hours		711	545	231	
Oil Hours		205	0	0	
Oil Changed		Not Changd	Changed	Not Changd	
Sample Status		NORMAL	ABNORMAL	NORMAL	
	ndition		0.400	0.404	
Visc @ 100°C	cSt	12.6	0 12.2	0 12.1	
Base Number (BN) Oxidation (PA)	mg KOH/g %	○ 7.4 80	0 4.6 186	○ 6.1 197	
Conta	mination	1			
Water	%	NEG	NEG	NEG	
Soot %	%	0.1	0.1	0.1	
Nitration (PA)	%	59	92	86	
Sulfation (PA)	%	64	102	107	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	1.0	
Silicon	ppm	8	O 11	0 8	
O 1'	ppm	1	O 0	O <1	
Sodium			O 3	O <1	

(O)					
Wed	ır Metal	S			
Iron	ppm	3	O 10	6	
Copper	ppm	39	<u>218</u>	32	
Lead	ppm	0	O 2	O 2	
Tin	ppm	0	O 2	<1	
Aluminum	ppm	3	O 2	O 2	
Chromium	ppm	○ <1	O 1	<1	
Molybdenum	ppm	78	O 52	50	
Nickel	ppm	0	O <1	O 0	
Titanium	ppm	0	O <1	O 0	
Silver	ppm	0	O 0	O 0	
Manganese	ppm	0	O 1	O <1	
Vanadium	ppm	0	<1	0	

	.				
	itives	O 1251	O 1000	O 1422	
Calcium	ppm	① 1351 ② 455	0 1329	O 1433	
Magnesium	ppm	455	0 804	948	
Zinc	ppm	O 1157	939	941	
Phosphorus	ppm	1036	O 831	827	
Barium	ppm	0	O 22	O 22	
Boron	ppm	348	O 143	O 116	



KINDER MORGAN

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Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: KINTRI
Unique No: 10981852
Signed: Wes Davis
Report Date: 18 Apr 2024

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Graphs

