CONSTRUCTION EQUIPMENT



Sample No: LH0258847

Oil Type: GEAR OIL SAE 80W90

J Sam	ple Inform	ation				
Sample Number		LH0258847	LH0217347	LHMC97127		
Sample Date		29 Feb 2024	20 May 2022	26 Feb 2021		MIDDLE RIVER MARINE
Machine Hours		7106	5172	3979		1771 SOUTH TORRENCE AVE
Oil Hours		1000	0	2000		CHICAGO, IL
Oil Changed		Changed	N/A	Changed		US 60617
Sample Status		SEVERE	ABNORMAL	ABNORMAL		Contact: Scott Molitor
						scottmolitor@gomiddleriver.com
Oil C	ondition					T:
Visc @ 40°C	cSt	0 113	0 4669	5283.		F:
-		U	•			
Cont	amination					Diagnosis
						The oil change at the time of
Water	%	0.101	NEG	NEG		sampling has been noted. We advis
Silicon	ppm	0 35	24	28		that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The iron level is severe.
Sodium	ppm	○ <1	0 403	358		
Potassium	ppm	0 🔘	0 11	9		
Ä						Gear wear is indicated. Appearance
Wea	r Metals					is hazy. There is no indication of any
Iron	ppm	2217	64	29		contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.
Copper	ppm	04	0 <1	0 <1		
Lead	ppm	0	0 <1	0 <1		
Tin	ppm	0	0 0	0 <1		
Aluminum	ppm	04	0 <1	0 <1		
Chromium	ppm	0 16	0 <1	0 <1		
Molybdenum	ppm	5	0 12	0 <1		
Nickel	ppm	08	0	<1		
Titanium	ppm	<1	2	3		
Silver	ppm	0	<1	<1		
Manganese	ppm	0 19	○ <1	◯ <1		
Vanadium	ppm	<1	0	0		
Addi	itives					
Calcium	ppm	0 44	294	260		
Magnesium	ppm	0	03	04		
Zinc	ppm	5 6	0 459	546		
Phosphorus	ppm	0 1076	0 606	0 674		
Barium	ppm	0	01	0		
		<u> </u>	0	0		

0 577



Depot:MIDCHIILUnique No:11002928Signed:Don BaldridgeReport Date:30 Apr 2024

0 165

ppm

Boron

0722

Contact/Location: Scott Molitor - MIDCHIIL

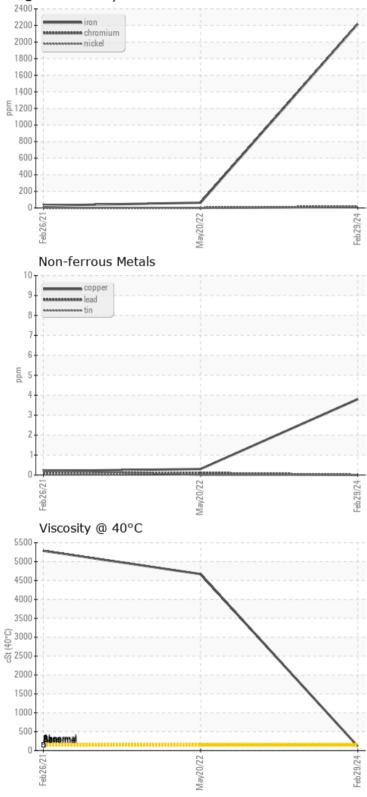




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Ferrous Alloys

Graphs



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