OIL ANALYSIS REPORT

HUNTER KURTZ YANMAR HUNTER KURTZ (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA059713

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number		VPA059713	 	
Sample Date		08 Apr 2024	 	
Machine Hours		2080	 	
Oil Hours		75	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.0	 	
Base Number (BN)	mg KOH/g	9.5	 	
Oxidation (PA)	%	65	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.2	 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	3	 	
Potassium	ppm	■ <1	 	
WEAR METALS				
Iron	ppm	8	 	
Copper	ppm	1	 	
Lead	ppm	1	 	
Tin	ppm	0	 	
Aluminum	ppm	6	 	
Chromium	ppm	_ <1	 	
Molybdenum	ppm	32	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1733	 	
Magnesium	ppm	409	 	
Zinc	ppm	1150	 	
Phosphorus	ppm	1035	 	
Barium	ppm	0	 	
Boron	ppm	61	 	

Marine and Sons

nset Ave TY, MD dward Bartholme @comcast.net:canastasio@wearcheckusa.com

sis

at the next service interval or.All component wear rates al. There is no indication of amination in the oil. The BN icates that there is suitable remaining in the oil. The of the oil is acceptable for in service.

Contact/Location: Edward Bartholme - VP551029

Signed: Report Date: VP551029 10968700 Angela Borella

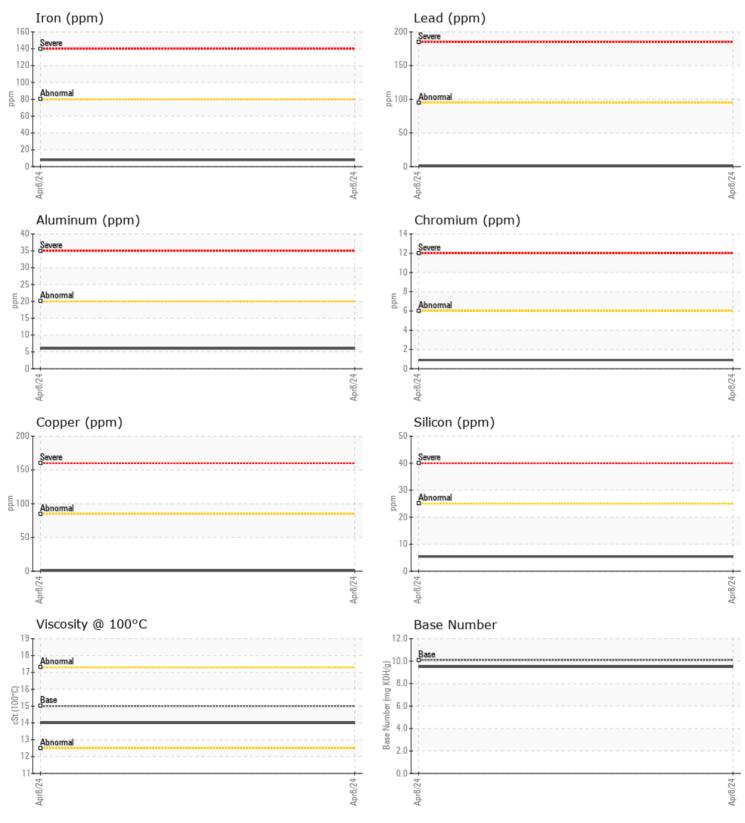
12 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Contact/Location: Edward Bartholme - VP551029