OIL ANALYSIS REPORT

NW MARITIME 7717835 VOLVO PENTA NW MARITIME (S/N NOT GIVEN) - PORT DIESEL ENGINE

Sample No: VPA050654

Oil Type: NOT GIVEN

SAMPLE INFORMATION

SAMPLE INFURMA				
Sample Number		VPA050654	 	
Sample Date		20 Nov 2023	 	
Machine Hours		1283	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.0	 	
Base Number (BN)		8.8	 	
Oxidation (PA)	%	46	 	
Oxidation (FA)	70	40	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	57	 	
Sulfation (PA)	%	49	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	6	 	
Sodium	ppm	5	 	
Potassium	ppm	38	 	
WEAR METALS				
Iron	ppm	57	 	
Copper	ppm	4 4	 	
Lead	ppm	0	 	
Tin	ppm	1	 	
Aluminum	ppm	1 7	 	
Chromium	ppm	2	 	
Molybdenum	ppm	63	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1216	 	
Magnesium	ppm	883	 	
Zinc	ppm	1212	 	
Phosphorus	ppm	970	 	
Barium	ppm	0	 	
Boron	ppm	4	 	

Pacific Power Group - VP981534 7215 S 228th St Kent, WA US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com T: (253)520-5163 F:

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Unique No: 10777230 Signed: Angela Borella Report Date: 08 Dec 2023

Contact/Location: PAT RYAN - VP99031103

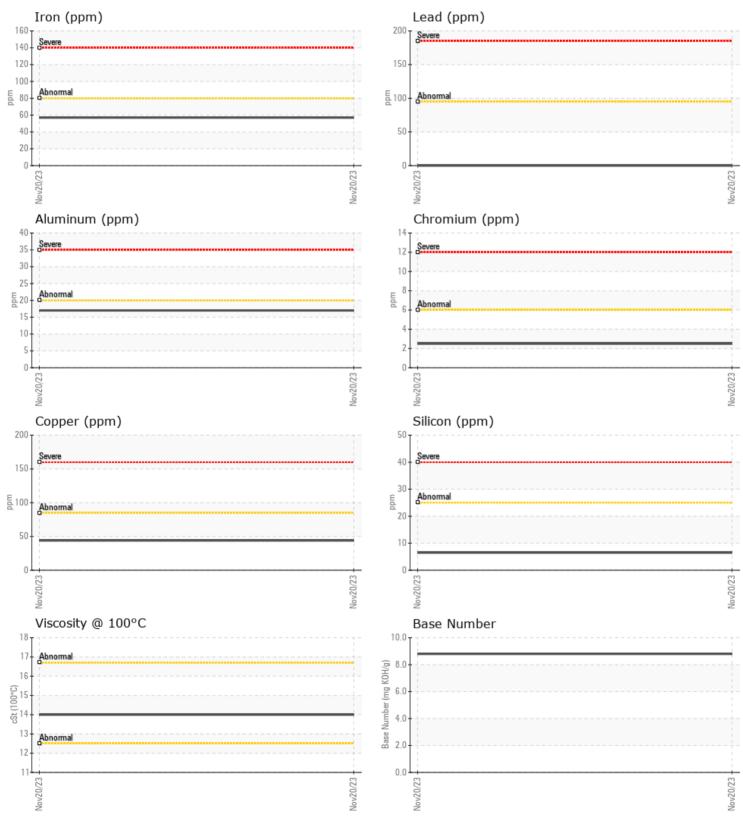
VP99031103



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: PAT RYAN - VP99031103