



SCOTT WINKELMAN 42146 1012620951 - PORT DIESEL ENGINE

Sample No: VPA044792

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA044792	 	
Sample Date		06 Jul 2023	 	
Machine Hours		3078	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.8	 	
Base Number (BN)	mg KOH/g	■8.2	 	
Oxidation (PA)	%	56	 	
CONTAMINATION				
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Soot %	%	0.1	 	
Nitration (PA)	%	65	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■ 3	 	
Sodium	ppm	1	 	
Potassium	ppm	4	 	
WEAR METALS				
Iron	ppm	3	 	
Copper	ppm	1	 	
Lead	ppm		 	
Tin	ppm	■<1	 	
Aluminum	ppm	■3	 	
Chromium	ppm	0	 	
Molybdenum	ppm	73	 	
Nickel	ppm	■<1	 	
Titanium	ppm	■ <1	 	
Silver	ppm	■ 0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIDES				
Calcium	ppm	■2005	 	
Magnesium	ppm	163	 	
Zinc	ppm	1169	 	
Phosphorus	ppm	941	 	
Barium	ppm	■0	 	
Boron	ppm	72	 	

INTERSTATE POWER SYSTEMS

MINNEAPOLIS, MN US 55425 Contact: BRADY GARBRECHT brady.garbrecht@istate.com T: F:

Diagnosis

2901 E 78TH ST

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.

Depot:VP1103105Unique No:10550558Signed:Don BaldridgeReport Date:12 Jul 2023

OIL ANALYSIS REPORT



