



VOLVO PENTA A472923 - STARBOARD DIESEL ENGINE

Sample No: VPA058318

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMAT	TION				
Sample Number		VPA058318			
Sample Date		27 Mar 2024			
Machine Hours		577			
Oil Hours		80			
Oil Changed		Changed			
Sample Status		NORMAL			
		110111111111	_	_	_
OIL CONDITION					
Visc @ 100°C	cSt	14.2			
Base Number (BN)	mg KOH/g	■8.5			
Oxidation (PA)	%	55			
CONTAMINATION					
Water	%	NEG			
Soot %	%	■0.2			
Nitration (PA)	%	66			
Sulfation (PA)	%	50			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon		■ 5			
Sodium	ppm	■3			
Potassium	ppm	3			
	ррпп				
WEAR METALS					
Iron	ppm	17			
Copper	ppm	■5			
Lead	ppm	■3			
Tin	ppm	■<1			
Aluminum	ppm	14			
Chromium	ppm	1			
Molybdenum	ppm	0			
Nickel	ppm				
Titanium	ppm	O			
Silver	ppm	■0			
Manganese	ppm	■ <1			
Vanadium	ppm	0			
ADDITUES					
ADDITIVES					
Calcium	ppm	1404			
Magnesium	ppm	656			
Zinc	ppm	■851			
Phosphorus	ppm	744			
Barium	ppm	0			
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North Harbor Diesel Inc

720 30Th Street ANACORTES, WA US 98221

Contact: ED MCFARLIN ed@northharbordiesel.com

1: F:

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 suitable for further service.

Diagnosis

Depot:VP179089Unique No:10956487Signed:Doug BogartReport Date:04 Apr 2024

Contact/Location: ED MCFARLIN - VP179089

ppm

Boron

OIL ANALYSIS REPORT



