



VOLVO PENTA A472922 - PORT DIESEL ENGINE

Sample No: VPA058316

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

Sample Date 27 Mar 2024 <	Sample Number		VPA058316	 	
Machine Hours 568			27 Mar 2024	 	
Oil Changed Sample Status NORMAL	•		568	 	
NORMAL	Oil Hours		80	 	
DIL CONDITION DIL CONDITION	Oil Changed		Changed	 	
Visc @ 100°C	Sample Status		NORMAL	 	
Base Number (BN) mg KOH/g 8.7	OIL CONDITION				
Base Number (BN) mg KOH/g 8.7	Visc @ 100°C	cSt	14 0	 	
Oxidation (PA) % 55 CONTAMINATION Water % NEG Soot % % 0.2 Soot % % 65 Sulfation (PA) % 50				 	
Water % NEG	, ,		_	 	
Water % NEG		,,,			
Soot %	LUNTAMINATION				
Nitration (PA)	Water		NEG	 	
Sulfation (PA)	Soot %	%	■ 0.2	 	
Glycol % NEG <td></td> <td></td> <td>65</td> <td> </td> <td></td>			65	 	
Fuel % <1.0 Silicon ppm			50	 	
Silicon ppm				 	
Sodium		%		 	
WEAR METALS Iron ppm 13 -		ppm		 	
WEAR METALS Iron ppm 13 -		ppm		 	
Tron	Potassium	ppm	4	 	
Copper ppm 6 <td>WEAR METALS</td> <td></td> <td></td> <td></td> <td></td>	WEAR METALS				
Lead ppm 3	Iron	ppm	13	 	
Tin ppm	Copper	ppm	6	 	
Aluminum ppm 66	Lead	ppm	■3	 	
Chromium ppm	Tin	ppm	■<1	 	
Molybdenum ppm 0 Nickel ppm <1	Aluminum	ppm	6	 	
Nickel ppm <	Chromium	ppm	■<1	 	
Titanium ppm 0 Silver ppm 0 Silver ppm 0	Molybdenum	ppm	0	 	
Silver ppm 0 <td>Nickel</td> <td>ppm</td> <td>■<1</td> <td> </td> <td></td>	Nickel	ppm	■<1	 	
Manganese ppm Vanadium ppm 0 ADDITIVES Calcium ppm 1401 Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	Titanium	ppm	0	 	
Vanadium ppm 0 ADDITIVES Calcium ppm 1401 Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	Silver	ppm	■ 0	 	
ADDITIVES Calcium ppm 1401 Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	_	ppm	■<1	 	
Calcium ppm 1401 Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	Vanadium	ppm	0	 	
Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	ADDITIVES				
Magnesium ppm 632 Zinc ppm 860 Phosphorus ppm 743	Calcium	mag	1401	 	
Zinc ppm 860 Phosphorus ppm 743				 	
Phosphorus ppm T43	-			 	
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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: VP179089
Unique No: 10956486
Signed: Doug Bogart
Report Date: 04 Apr 2024

Contact/Location: ED MCFARLIN - VP179089

99

ppm

Boron

OIL ANALYSIS REPORT



