## **OIL ANALYSIS REPORT**

### VOLVO PENTA

### VOLVO PENTA A 174970 - PORT DIESEL ENGINE

Sample No: VPA058188

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMAT	ION				
Sample Number		VPA058188			
Sample Date		02 Feb 2024			
Machine Hours		306			
Oil Hours		100			
Oil Changed		Changed			
Sample Status		NORMAL			
Sumple Status		NORMAL	_	_	_
OIL CONDITION					
Visc @ 100°C	cSt	<b>14.1</b>			
Base Number (BN)	mg KOH/g	8.1			
Oxidation (PA)	%	60			
CONTAMINATION					
Water	%	NEG			
Soot %	%	■ 0.1			
Nitration (PA)	%	77			
Sulfation (PA)	%	53			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon		< 1.0 6			
Sodium	ppm ppm	2			
Potassium	ppm	4			
	ppin	•••			
WEAR METALS					
Iron	ppm	<b>11</b>			
Copper	ppm	5			
Lead	ppm	<b>1</b>			
Tin	ppm	<b>□</b> <1			
Aluminum	ppm	2			
Chromium	ppm	<b>■</b> <1			
Molybdenum	ppm	12			
Nickel	ppm	<b>1</b>			
Titanium	ppm	<b>■</b> <1			
Silver	ppm	0			
Manganese	ppm	0			
Vanadium	ppm	<1			
ADDITIVES					
Calcium	ppm	<b>1140</b>			
Magnesium	ppm	692			
Zinc	ppm	833			
Phosphorus	ppm	647			
Barium	ppm	<b>1</b> 0			
Boron	ppm	77			

#### North Harbor Diesel Inc

720 30Th Street ANACORTES, WA US 98221 Contact: ROBBIN MURDOCK robbin@northharbordiesel.com T: (360)299-1904 F:

#### Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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.

 Depot:
 VP179089

 Unique No:
 10882779

 Signed:
 Sean Felton

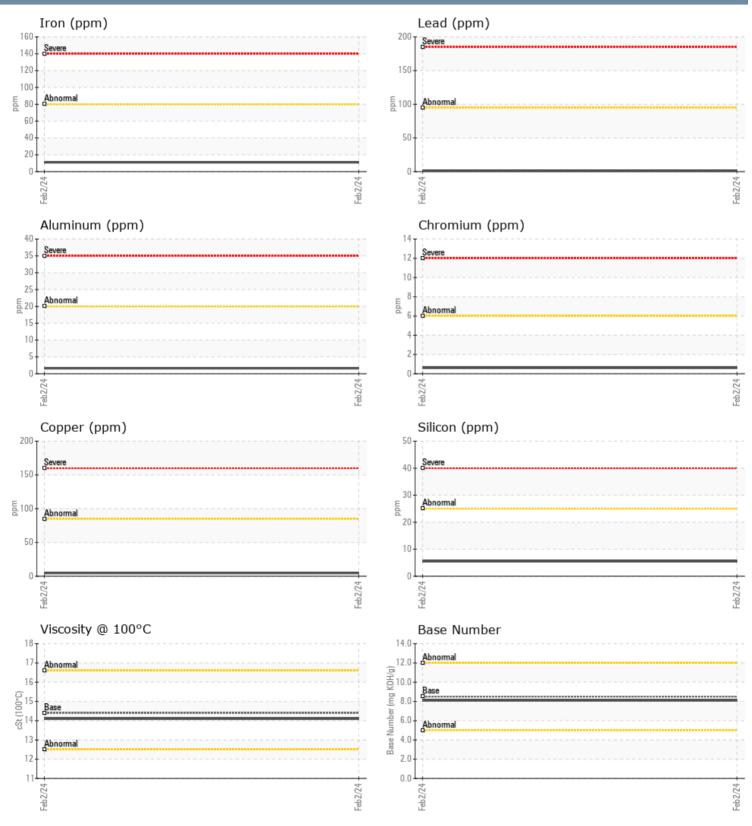
 Report Date:
 16 Feb 2024

Contact/Location: ROBBIN MURDOCK - VP179089

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP179089 [WUSCAR] 06089926 (Generated: 02/16/2024 15:20:23) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089