# **OIL ANALYSIS REPORT**

## **VOLVO PENTA**

### 50021882 - INBOARD - STARBOARD GEARBOX

Sample No: VPA045633

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORM	ATION			
Sample Number		VPA045633	VPA033191	 
Sample Date		20 Jul 2023	06 Apr 2022	 
Machine Hours		1971	1816	 
Oil Hours		0	100	 
Oil Changed		N/A	N/A	 
Sample Status		ABNORMAL	NORMAL	 
OIL CONDITION				
Visc @ 40°C	cSt	93.4	92.8	 
CONTAMINATION				
Silicon	ppm	5	4	 
Sodium	ppm	□ <1	□ <1	 
Potassium	ppm	0	0	 
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WEAR METALS				
PQ		∎11	22	 
Iron	ppm	7	6	 
Copper	ppm	🔺 207	57	 
Lead	ppm	25	19	 
Tin	ppm	<b>  </b> <1	1	 
Aluminum	ppm	■ <1	2	 
Chromium	ppm	0	< 1	 
Molybdenum	ppm	<b>14</b>	20	 
Nickel	ppm	<b></b> <1	0	 
Titanium	ppm	■<1	<1	 
Silver	ppm	0	<1	 
Manganese	ppm		□ <1	 
Vanadium	ppm	<1	0	 
ADDITIVES				
Calcium	ppm	3094	3103	 
Magnesium	ppm	<b>198</b>	222	 
Zinc	ppm	<b>1033</b>	1092	 
Phosphorus	ppm	942	982	 
Barium	ppm	0	0	 
Boron	ppm	<b>45</b>	28	 
	1.1.			

#### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2 NAPLES, FL US 34104 Contact: KEITH SPICER keith\_advanceddiesel@yahoo.com T: (239)580-8731 F:

### Diagnosis

Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

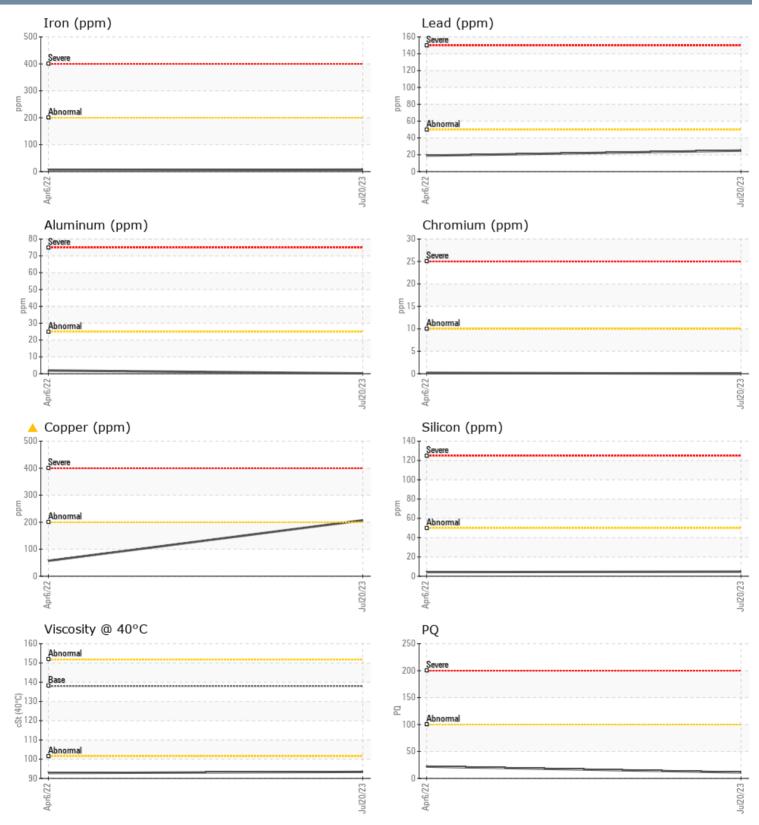
Depot:	VPADVNAP		
Unique No:	10574558		
Signed:	Angela Borella		
Report Date:	28 Jul 2023		

Contact/Location: KEITH SPICER - VPADVNAP

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#### GRAPHS



Report Id: VPADVNAP [WUSCAR] 05907906 (Generated: 07/28/2023 17:08:40) Rev: 1

Contact/Location: KEITH SPICER - VPADVNAP