## **OIL ANALYSIS REPORT**

#### VOLVO PENTA A1122683 - PORT DIESEL ENGINE

Sample No: VPA056381

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA056381	 	 
Sample Date		16 Nov 2023	 	 FDDA FT PIERCE - POW
Machine Hours		454	 	
Oil Hours		0	 	 FORT PIERCE, FL
Oil Changed		Changed	 	 US
Sample Status		NORMAL	 	 Contact: KYLE GRASER k.graser@kirbycorp.com
OIL CONDITION				T:
Visc @ 100°C	cSt	13.3	 	 F:
Base Number (BN)	mg KOH/g	10.3	 	 
Oxidation (PA)	%	55	 	 Diagnosis
CONTAMINATION				Resample at the next se to monitor.Metal levels
	0/			a new component brea
Water	%	NEG	 	 is no indication of any c
Soot %	%	0.5	 	 in the oil. The BN result
Nitration (PA)	%	48	 	 there is suitable alkalinit in the oil. The condition
Sulfation (PA)	%	52	 	 acceptable for the time
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■4	 	
Sodium	ppm	0	 	
Potassium	ppm	3	 	 
WEAR METALS				
Iron	ppm	<b>1</b> 3	 	
Copper	ppm	5	 	
Lead	ppm	2	 	
Tin	ppm	<b>  </b> <1	 	
Aluminum	ppm	3	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	64	 	
Nickel	ppm	■<1	 	
Titanium	ppm	<b></b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1146	 	
Magnesium	ppm	<b>941</b>	 	
Zinc	ppm	1223	 	
Phosphorus	ppm	<b>1071</b>	 	
Barium	ppm	0	 	
Boron	ppm	4	 	 Depot: VP20865
	1.1			Unique No: 1076947

### WER CENTER

service interval els are typical for eaking in. There y contamination ult indicates that inity remaining on of the oil is ne in service.

Contact/Location: KYLE GRASER - VP208659

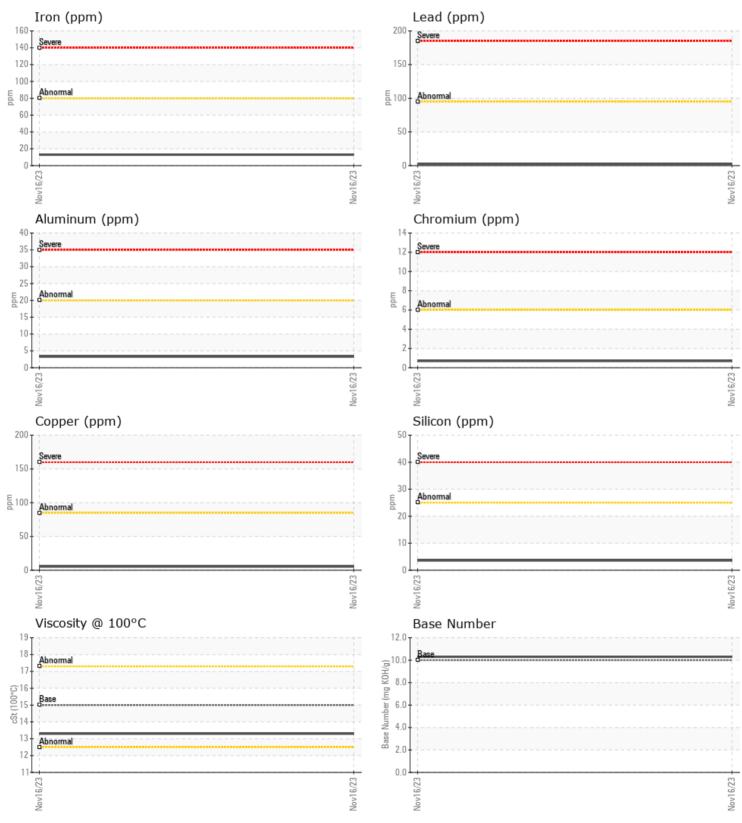
Report Date: 06 Dec 2023



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#### GRAPHS



Report Id: VP208659 [WUSCAR] 06024971 (Generated: 12/08/2023 03:48:03) Rev: 1

Contact/Location: KYLE GRASER - VP208659