## **OIL ANALYSIS REPORT**

#### STEPHAN WOLFF TAP510497 VOLVO PENTA 20132170055 - STARBOARD DIESEL ENGINE

Sample No: VPA056790

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

Sample Number		VPA056790	 	
Sample Date		28 Sep 2023	 	
Machine Hours		296	 	
Oil Hours		296	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
/isc @ 100°C	cSt	<b>13.0</b>	 	
Base Number (BN)	mg KOH/g	9.1	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
	0/	NEC		
Water Soot %	%	NEG	 	
Nitration (PA)	%	54	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
-uel	%	<1.0	 	
Silicon		<1.0 ■13	 	
Sodium	ppm	■ <sup>13</sup>	 	
Potassium	ppm ppm	7	 	
otassium	ррпі	1	 	
WEAR METALS				
ron	ppm	<b>17</b>	 	
Copper	ppm	9	 	
.ead	ppm	2	 	
Гin	ppm	<b>1</b>	 	
Aluminum	ppm	3	 	
Chromium	ppm	<b>  </b> <1	 	
Molybdenum	ppm	56	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b>1</b>	 	
/anadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	<b>1102</b>	 	
Vagnesium	ppm	1027	 	
Zinc	ppm	1303	 	
Phosphorus	ppm	1055	 	
Barium	ppm		 	
Janum	РЫП		 	
Boron	ppm	0	 	



FL **KYLE SUTLEY** စာssss.com 18-8518

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le at the next service interval itor.All component wear rates mal. There is no indication of tamination in the oil. The BN dicates that there is suitable y remaining in the oil. The on of the oil is suitable for service.

Contact/Location: KYLE SUTLEY - VP208641

Report Date:

VP208641 10674104

Don Baldridge

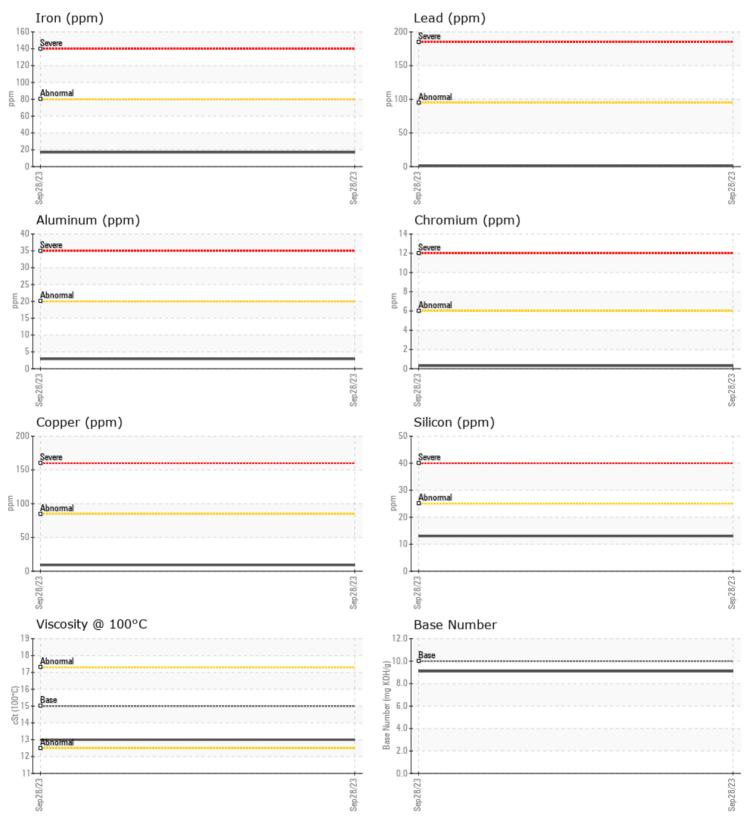
05 Oct 2023



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP208641 [WUSCAR] 05967553 (Generated: 12/07/2023 08:31:18) Rev: 1

Contact/Location: KYLE SUTLEY - VP208641