OIL ANALYSIS REPORT

VOLVO PENTA A 1160580 - PORT DIESEL ENGINE

Sample No: VPA056278

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

SAMPLE INFORM	ATION				
Sample Number		VPA056278	 		
Sample Date		13 Nov 2023	 		FDDA FT PIERCE - POWER CENTER
Machine Hours		68	 		FORT PIERCE, FL
Oil Hours		15	 		US
Oil Changed		Not Changd	 		Contact: KYLE GRASER
Sample Status		NORMAL	 		k.graser@kirbycorp.com
					T:
OIL CONDITION					F:
Visc @ 100°C	cSt	13.04	 		
Oxidation (PA)	%	58	 		
					Diagnosis
CONTAMINATION					No corrective action is recommended
Soot %	%	0.2	 		at this time. Resample at the next
Nitration (PA)	%	45	 		service interval to monitor.All 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.
Sulfation (PA)	%	54	 		
Glycol	%	NEG	 		
Fuel	%	<1.0	 		
Silicon	ppm	24	 		
Sodium	ppm	5	 		
Potassium	ppm	2	 		
WEAR METALS					
Iron	ppm	16	 		
Copper	ppm	21	 		
Lead	ppm	5	 		
Tin	ppm	2	 		
Aluminum	ppm	5	 		
Chromium	ppm	■ <1 ■ 60	 		
Molybdenum	ppm	60	 		
Nickel	ppm	■ 1	 		
Titanium Silver	ppm	□ <1	 		
Manganese	ppm	0	 		
Vanadium	ppm ppm	<1	 		
	ррпп		 		
ADDITIVES					
Calcium	ppm	1230	 		
Magnesium	ppm	919	 		
Zinc	ppm	1283	 		
Phosphorus	ppm	1112	 		
Barium	ppm	■ <1	 		
Boron	ppm	1 7	 		

 Depot:
 VP208659

 Unique No:
 10749114

 Signed:
 Doug Bogart

 Report Date:
 16 Nov 2023

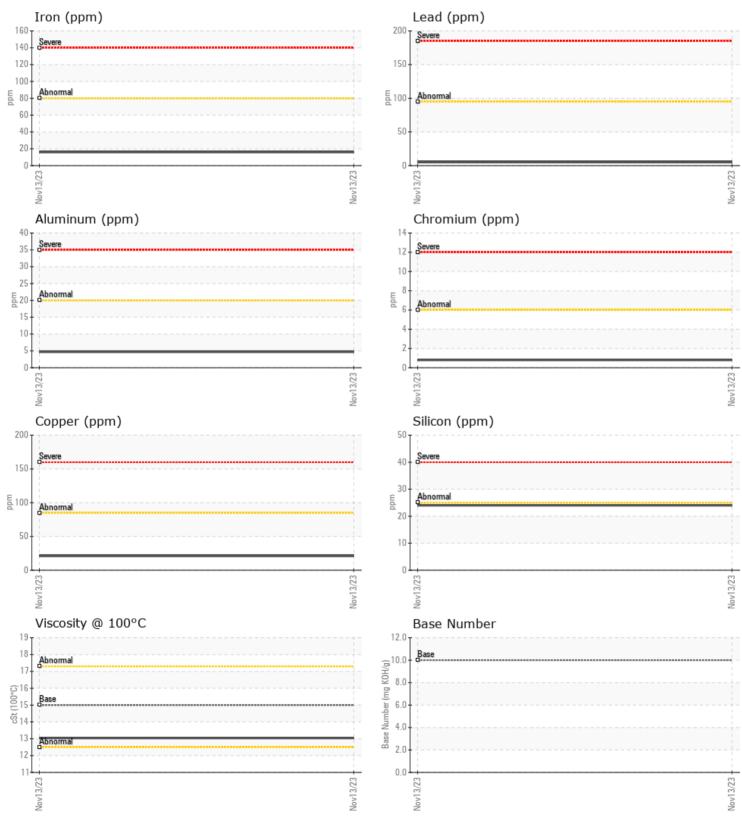
Contact/Location: KYLE GRASER - VP208659



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP208659 [WUSCAR] 06009970 (Generated: 11/16/2023 15:56:36) Rev: 1

Contact/Location: KYLE GRASER - VP208659