OIL ANALYSIS REPORT

VOLVO PENTA A 192291 - STARBOARD DIESEL ENGINE

Sample No: VPA060936

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

Comple Number		VDA060036				
Sample Number		VPA060936				FDDA FT PIERCE - POWER CENTER
Sample Date Machine Hours		04 Apr 2024 273				
Oil Hours		0				FORT PIERCE, FL
						US
Oil Changed		Not Changd NORMAL				Contact: KYLE GRASER
Sample Status		NORMAL				k.graser@kirbycorp.com
OIL CONDITION						T: F:
/isc @ 100°C	cSt	13.61				F.
Base Number (BN)	mg KOH/g	10.0				Diagnosis
Oxidation (PA)	%	56				-
CONTAMINATION						No corrective action is recommend at this time. Resample at the next service interval to monitor.All
Water	%	NEG				component wear rates are normal.
Soot %	%	0.1				There is no indication of any
Nitration (PA)	%	41				contamination in the oil. The BN
Sulfation (PA)	%	51				result indicates that there is suitable
Glycol	%	NEG				alkalinity remaining in the oil. The
Fuel	%	<1.0				condition of the oil is suitable for
Silicon	ppm	4				further service.
Sodium	ppm	1				
Potassium	ppm	3				
WEAR METALS						
Iron	ppm	7				
Copper	ppm	 <1				
Lead	ppm	1				
Tin	ppm	■ <1				
Aluminum	ppm	11				
Chromium	ppm	■<1				
Volybdenum	ppm	47				
Nickel	ppm	1				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	 <1				
Vanadium	ppm	<1				
ADDITIVES						
Calcium	ppm	1160				
Magnesium	ppm	800				
Zinc	ppm	1222				
Phosphorus	ppm	1032				
Barium	ppm	0				
Boron	ppm	25				Depot: VP208659

Contact/Location: KYLE GRASER - VP208659

05 Apr 2024

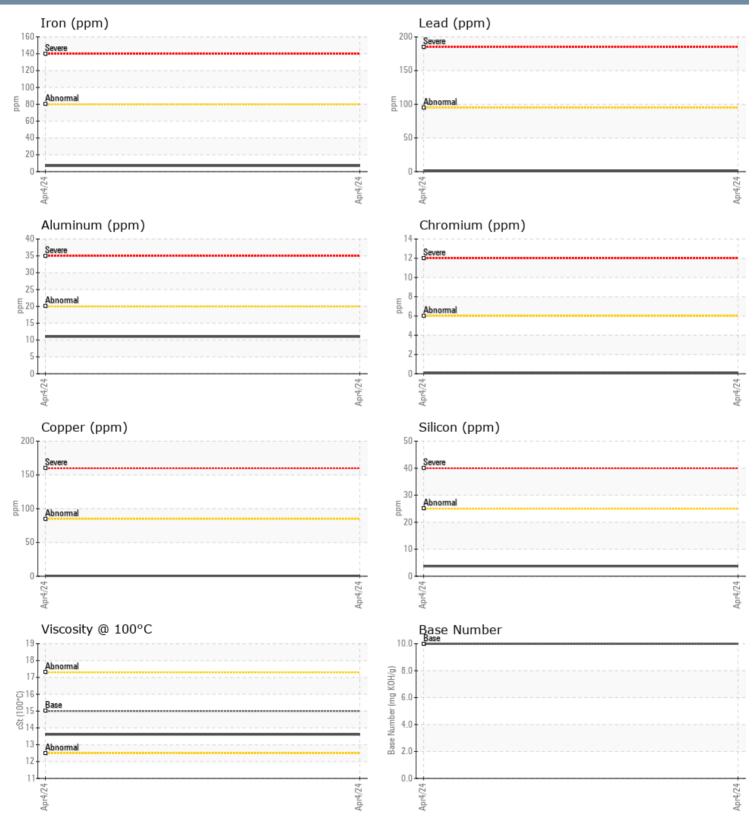
Report Date:



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP208659 [WUSCAR] 06140472 (Generated: 04/05/2024 17:02:36) Rev: 1

Contact/Location: KYLE GRASER - VP208659