OIL ANALYSIS REPORT

DORRIS VOLVO PENTA 2204155404 - PORT DIESEL ENGINE

Sample No: VPA059800

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

Sample Number		VPA059800				
Sample Date		15 Apr 2024				Cogswell Marine & Motorsports
Machine Hours		0				865 Stella Street
Oil Hours		0				CHULA VISTA, CA
Oil Changed Sample Status		Not Changd SEVERE				US 91911 Contact: Mitchell Cogswell Cogswellmarinemotorsports@gmail
OIL CONDITION						T:
/isc @ 100°C	cSt	15.6				F:
Base Number (BN)	mg KOH/g	7.0				
Dxidation (PA)	%	86				Diagnosis
CONTAMINATION						No corrective action is recommer at this time. We recommend an e
						resample to monitor this
Water	%	NEG				condition. The iron level is abnorn
Soot %	%	0.4				The nickel level is abnormal. Elemental level of silicon (Si) above
Nitration (PA)	%	88				normal indicating ingress of seal
Sulfation (PA)	%	64				material. The BN result indicates t
Glycol	%	NEG				there is suitable alkalinity remaini
Fuel	%	<1.0				in the oil.
Silicon	ppm	1 49				
Sodium	ppm	41				
Potassium	ppm	23				
WEAR METALS						
ron	ppm	<u> </u>				
Copper	ppm	26				
_ead	ppm	4				
Tin	ppm	3				
Aluminum	ppm	8				
Chromium	ppm	5				
Molybdenum	ppm	34				
Nickel	ppm	<u> </u>				
Titanium	ppm	■ <1				
Silver	ppm					
Manganese	ppm	1				
/anadium	ppm	<1				
ADDITIVES						
Calcium	ppm	3337				_
Aagnesium	ppm	210				
Zinc		1907				
	ppm					
hosphorus	ppm	1558				
Barium	ppm	0 ■ 238				Depot: VP152133
Boron	ppm					

Contact/Location: Mitchell Cogswell - VP152133

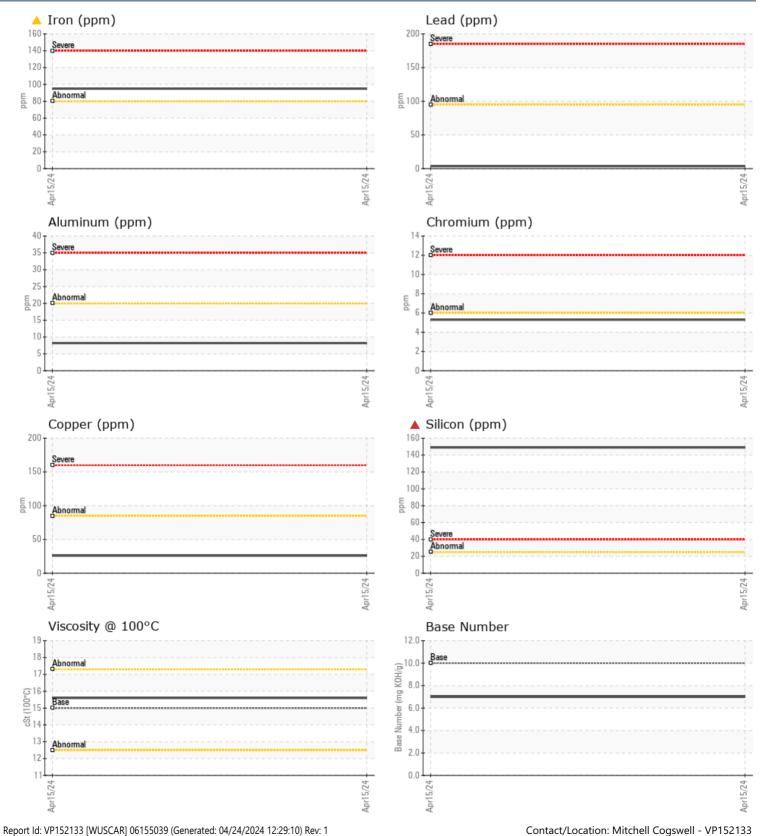
24 Apr 2024

Report Date:

OIL ANALYSIS REPORT



GRAPHS



Contact/Eocation. Which