OIL ANALYSIS REPORT

VALA RAD VOLVO PENTA 4012145131 - STARBOARD GASOLINE ENGINE

Sample No: VPA062008

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

SAMPLE INFURMA	IUN			
Sample Number		VPA062008	 	
Sample Date		06 May 2024	 	
Machine Hours		475	 	
Oil Hours		5	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	10.1	 	
Base Number (BN)	mg KOH/g	10.2	 	
Oxidation (PA)	%	33	 	
CONTAMINATION				
Water	%	0.361	 	
Soot %	%	0.301	 	
Nitration (PA)	%	42	 	
Sulfation (PA)	%	45	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon		<1.0 ■49	 	
Sodium	ppm	▲ 984	 	
Potassium	ppm	▲ 39	 	
Folassium	ppm	~ 39	 	
WEAR METALS				
Iron	ppm	5 38	 	
Copper	ppm	75	 	
Lead	ppm	4	 	
Tin	ppm	 <1	 	
Aluminum	ppm	4 0	 	
Chromium	ppm	1 2	 	
Molybdenum	ppm	53	 	
Nickel	ppm	6	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	4	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	3359	 	
	ppm	125	 	
Magnesium Zinc	ppm	1124	 	
Zinc	ppm	1124	 	

gswell Marine & Motorsports, Inc 5 Stella Street HULA VISTA, CA 91911 ontact: Mitchell Cogswell gswellmarinemotorsports@gmail.com

iagnosis

/e advise that you check for the ource of the coolant leak. Check for w coolant level. Oil and filter hange at the time of sampling has een noted. We recommend an early esample to monitor this ondition.Piston, ring and cylinder vear is indicated. Valve wear is ndicated. Sodium and/or potassium evels are high. There is a moderate oncentration of water present in the il. The BN result indicates that there suitable alkalinity remaining in the il.

Depot: VP152133 Unique No: 11022477 Signed: Jonathan Hester Report Date: 16 May 2024

ppm

ppm

ppm

Phosphorus

Barium

Boron

1023

2

448

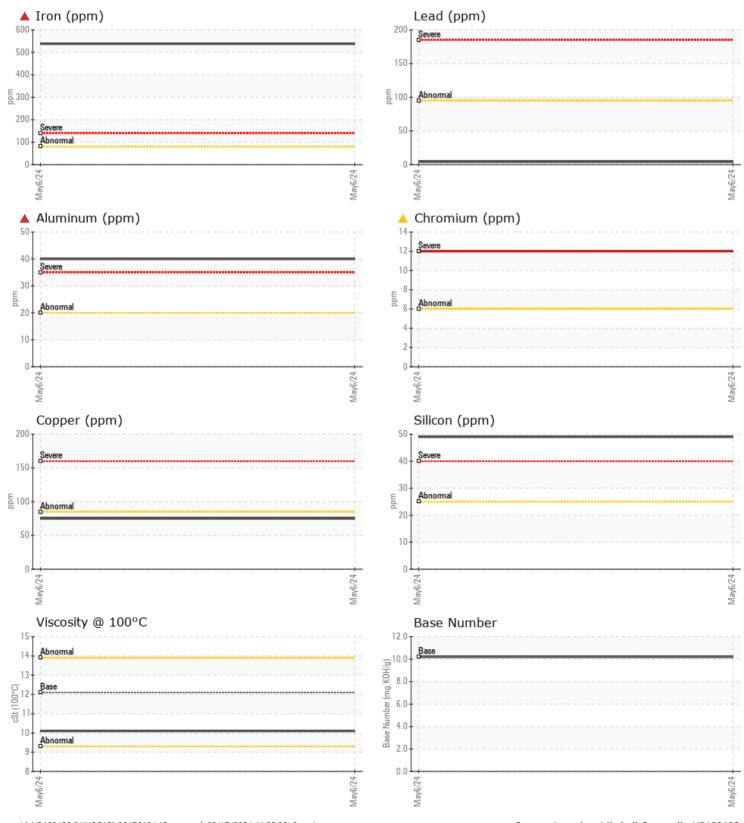
Contact/Location: Mitchell Cogswell - VP152133



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP152133 [WUSCAR] 06176424 (Generated: 05/17/2024 11:55:22) Rev: 1

Contact/Location: Mitchell Cogswell - VP152133