OIL ANALYSIS REPORT

MATT BOHUERT 6204 VOLVO PENTA KAD44P-B 2204403545 - STARBOARD DIESEL ENGINE

Sample No: VPA045820

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status OIL CONDITION Visc @ 100°C cSt Base Number (BN) mg KOH Oxidation (PA) % CONTAMINATION CONTAMINATION Soot % % Nitration (PA) % Sulfation (VPA045820 07 Aug 2023 2389 0 Not Changd	 	
Machine HoursImage: Second	2389 0		
Oil Hours Image: Status Oil Changed Image: Status OIL CONDITION Image: Status Visc @ 100°C cSt Base Number (BN) mg KOH Oxidation (PA) % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm	0		
Oil Changed Sample StatusImage: Constant of the second statusOIL CONDITIONStatusVisc @ 100°CcStBase Number (BN)mg KOH Oxidation (PA)Oxidation (PA)%CONTAMINATION%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%Siliconppm			
Sample StatusOIL CONDITIONVisc @ 100°CcStBase Number (BN)mg KOHOxidation (PA)%CONTAMINATIONSoot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%Siliconppm	Not Change		
OIL CONDITION Visc @ 100°C cSt Base Number (BN) mg KOH Oxidation (PA) % CONTAMINATION % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm	gu	 	
Visc @ 100°C cSt Base Number (BN) mg KOH Oxidation (PA) % CONTAMINATION % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm	NORMAL	 	
Visc @ 100°C cSt Base Number (BN) mg KOH Oxidation (PA) % CONTAMINATION Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm			
Base Number (BN) Oxidation (PA)mg KOF %CONTAMINATION%Soot %%Nitration (PA)%Glycol%Fuel%Siliconppm			
Base Number (BN) Oxidation (PA)mg KOH %CONTAMINATION%Soot %%Nitration (PA)%Glycol%Fuel%Siliconppm	14.4	 	
Oxidation (PA)%CONTAMINATIONSoot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%Siliconppm	l/g 8.1	 	
CONTAMINATIONSoot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%Siliconppm	49	 	
Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm			
Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm			
Sulfation (PA)%Glycol%Fuel%Siliconppm	0.8	 	
Glycol%Fuel%Siliconppm	63	 	
Fuel % Silicon ppm	51	 	
Silicon ppm	NEG	 	
	<1.0	 	
Codium		 	
Sodium ppm	9		
Potassium ppm	9 4	 	

WEAR METALS

Iron	ppm	39	 	
Copper	ppm	5	 	
Lead	ppm	3	 	
Tin	ppm	 <1	 	
Aluminum	ppm	1 4	 	
Chromium	ppm	1	 	
Molybdenum	ppm	1 4	 	
Nickel	ppm	2	 	
Titanium	ppm	 <1	 	
Silver	ppm	 <1	 	
Manganese	ppm	<1	 	
Vanadium	ppm	<1	 	

ADDITIVES

Calcium	ppm	1292	 	
Magnesium	ppm	682	 	
Zinc	ppm	798	 	
Phosphorus	ppm	674	 	
Barium	ppm	0	 	
Boron	ppm	103	 	

Northwest Diesel Power

1325 ROEDER AVE SUITE 103 BELLINGHAM, WA US 98225 Contact: BRANDON ROBERTSON parts@nwdieselpower.com T: F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

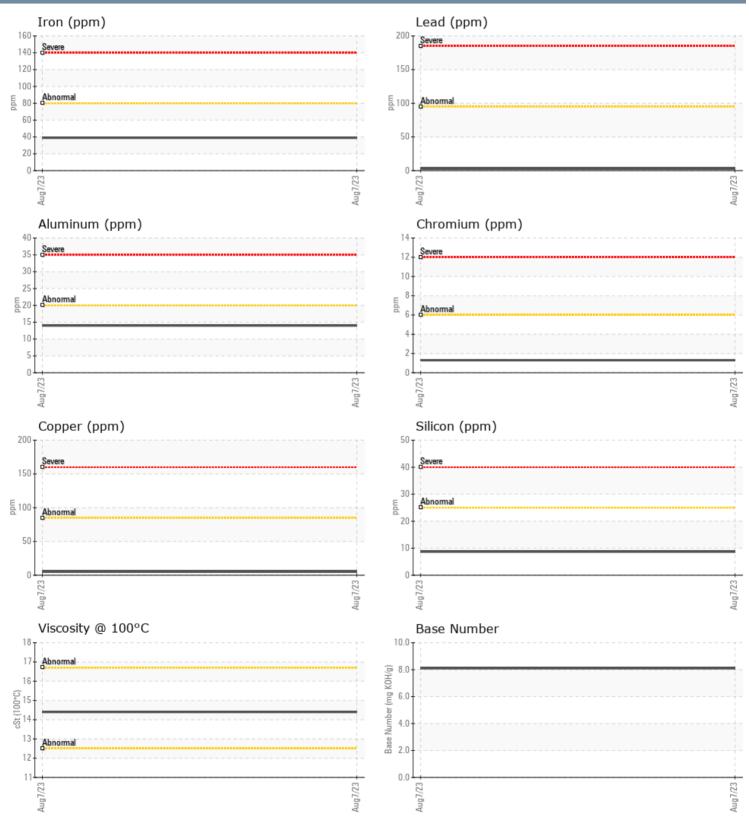
Depot: VP759009 Unique No: 10591903 Signed: Sean Felton Report Date: 10 Aug 2023



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP759009 [WUSCAR] 05919989 (Generated: 08/14/2023 09:38:06) Rev: 1

Contact/Location: BRANDON ROBERTSON - VP759009