OIL ANALYSIS REPORT

A725119 - CENTER DIESEL ENGINE

Sample No: VPA016714

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORM	ATION				
Sample Number		VPA016714			
Sample Date		27 May 2018			
Machine Hours		104			
Oil Hours		46			
Oil Changed		Changed			
Sample Status		NORMAL			
			_	_	
OIL CONDITION					
Visc @ 100°C	cSt	13.63			
Oxidation (PA)	%	40			
CONTAMINATION	1				
CONTAMINATION					
Soot %	%	0.1			
Nitration (PA)	%	33			
Sulfation (PA)	%	42			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon	ppm	8			
		8			
Silicon Sodium Potassium	ppm ppm ppm				
Sodium Potassium WEAR METALS	ppm ppm	□3 □7			
Sodium Potassium WEAR METALS Iron	ppm ppm ppm	3 7 8			
Sodium Potassium WEAR METALS Iron Copper	ppm ppm ppm ppm	■ 3 ■ 7 ■ 8 ■ 5		 	
Sodium Potassium WEAR METALS Iron Copper Lead	ppm ppm ppm ppm ppm	8 5 2		 	
Sodium Potassium WEAR METALS Iron Copper Lead Tin	ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1	 		
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum	ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum	ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1 57 1 1 <1			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 4 <1 57 1 57 1 <1 0			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1 57 1 <1 <1 0 (
Sodium Potassium WEAR METALS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 4 <1 57 1 57 1 <1 0			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1 57 1 <1 <1 0 (
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1 57 1 <1 <1 0 (
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	3 7 8 5 2 <1 4 <1 57 1 57 1 3 4 57 1 3 57 1 3 1 3 57 1 3 1 3 57 1 3 1 3 57 3 1 3 5 5 3 5 5 3 5 5 5 5 5 5 5 5 5 5 5			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium	ppm p	3 7 8 5 2 <1 4 <<1 57 1 < 57 1 < 1 <1 0 < 1 0			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium Magnesium Zinc	ppm p	3 7 8 5 2 <1 4 <1 57 1 57 1 <1 0 <1 0 <1 0 0 <1 0 0 1020 1024			
Sodium Potassium WEAR METALS Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium Magnesium	ppm p	3 7 8 5 2 <1 4 <1 57 1 <1 <1 0 <1 0 <1 0 <1 0 0 <1 0 0 1020 102			

VOLVO PENTA

WERNER LEHNER

1305 MARINERS PL ANACORTES, WA US 98221 Contact: WERNER LEHNER werner@lehnerusa.com T: (310)454-7344 F:

Diagnosis

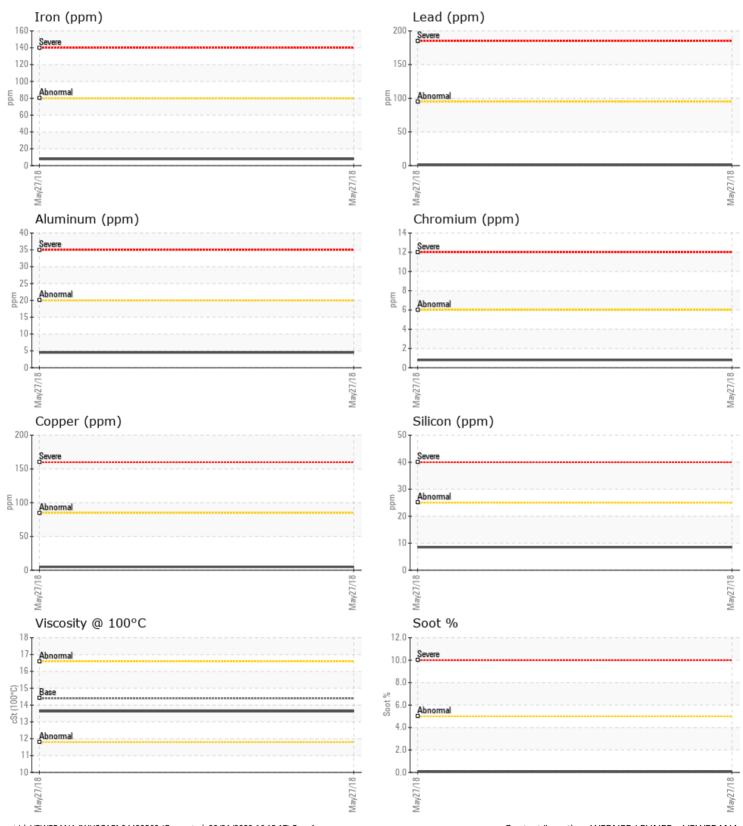
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VPWERANAUnique No:8214336Signed:Don BaldridgeReport Date:31 May 2018

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WERNER LEHNER - VPWERANA