OIL ANALYSIS REPORT

VOLVO PENTA

ONAN C090237567 - CENTER GENSET

Sample No: VPA060939

Oil Type: DIESEL ENGINE OIL SAE 15W40

Sample Number		VPA060939	VPA014686	
Sample Date		03 Jan 2024	18 May 2022	
Machine Hours		5800	5440	
Oil Hours		0	0	
Oil Changed		Not Changd	N/A	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.86	14.6	
Base Number (BN)	mg KOH/g	11.1	10.4	
Oxidation (PA)	%	52	76	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	.1	0.1	
Nitration (PA)	%	69	61	
Sulfation (PA)	%	52	60	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	5	4	
Sodium	ppm	0	2	
Potassium	ppm	1	 < 1	
WEAR METALS				
Iron	ppm	4	2	
Copper	ppm	 <1	<1	
Lead	ppm	0	<1	
Tin	ppm	 <1	 <1	
Aluminum	ppm	2	1	
Chromium	ppm	 <1	<1	
Molybdenum	ppm	55	44	
Nickel	ppm	 <1	0	
Titanium	ppm	 <1	<1	
Silver	ppm	0	<1	
Manganese	ppm	0	<1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1263	1226	
Magnesium	ppm	807	817	
Zinc	ppm	931	885	
Phosphorus	ppm	836	727	
Barium	ppm	1 0	0	
Boron	ppm	142	58	

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL US Contact: KYLE GRASER k.graser@kirbycorp.com T:

Diagnosis

No corrective action is recommended at this time. 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 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:
 VP208659

 Unique No:
 10818313

 Signed:
 Doug Bogart

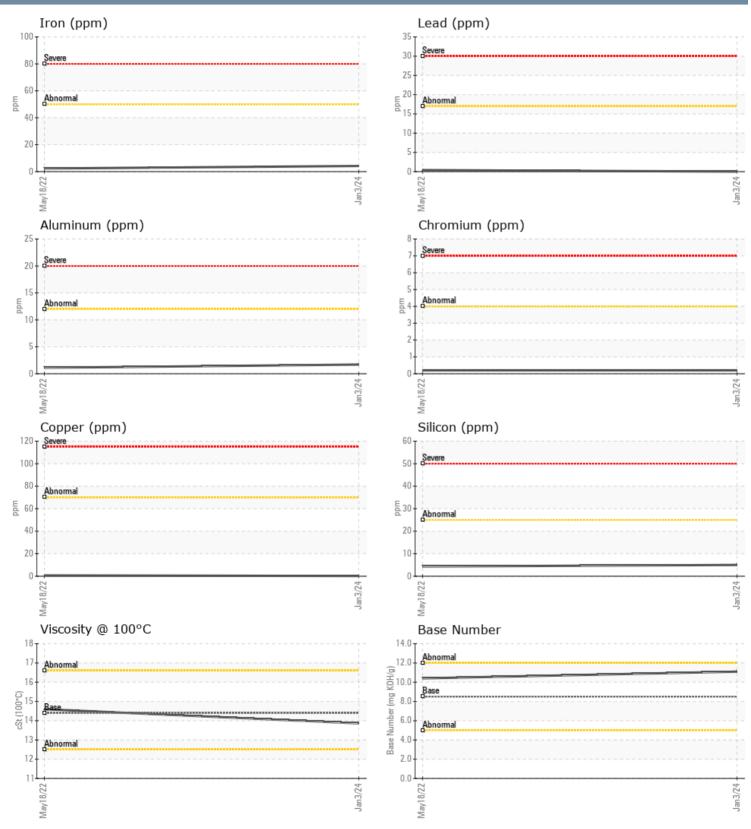
 Report Date:
 05 Jan 2024

Contact/Location: KYLE GRASER - VP208659

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP208659 [WUSCAR] 06052364 (Generated: 01/05/2024 16:43:29) Rev: 1

Contact/Location: KYLE GRASER - VP208659