## **OIL ANALYSIS REPORT**

### FISCHER PANDA SN175663 - GENSET

Sample No: VPA036749

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

Sample Number		VPA036749	VPA033449	 
Sample Date		08 Sep 2023	28 Mar 2022	 
Machine Hours		843	682	 
Oil Hours		0	0	 
Oil Changed		Changed	Not Changd	 
Sample Status		NORMAL	NORMAL	 
OIL CONDITION				
Visc @ 100°C	cSt	13.4	13.8	 
Base Number (BN)	mg KOH/g	7.7	9.5	 
Oxidation (PA)	%	64	71	 
CONTAMINATION				
Soot %	%	0.1	0.1	 
Nitration (PA)	%	56	50	 
Sulfation (PA)	%	55	61	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	∎11	6	 
Sodium	ppm	3	0	 
Potassium	ppm	∎ 10	8	 
WEAR METALS				
Iron	ppm	6	2	 
Copper	ppm	<b>□</b> <1	2	 
Lead	ppm	□<1	<1	 
Tin	ppm	<b>□</b> <1	<1	 
Aluminum	ppm	0	1	 
Chromium	ppm	<b>  </b> <1	0	 
Molybdenum	ppm	<b>■</b> <1	11	 
Nickel	ppm	<b>■</b> <1	0	 
Titanium	ppm	0	0	 
Silver	ppm	<b>1</b>	4	 
Manganese	ppm	<b>□</b> <1	0	 
	ppm	0	0	 
Vanadium				
	ppm	2528	2097	 
ADDITIVES	ppm ppm	2528 35	2097 182	 
ADDITIVES Calcium				
ADDITIVES Calcium Magnesium	ppm	35	182	 
ADDITIVES Calcium Magnesium Zinc	ppm ppm	35 1413	<b>182 1257</b>	 



FULL KEEL MARINE SERVICES 814 LEGION AVE ANNAPOLIS, MD JS 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM IT: (410)507-3542

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP1298996

 Unique No:
 10646587

 Signed:
 Jonathan Hester

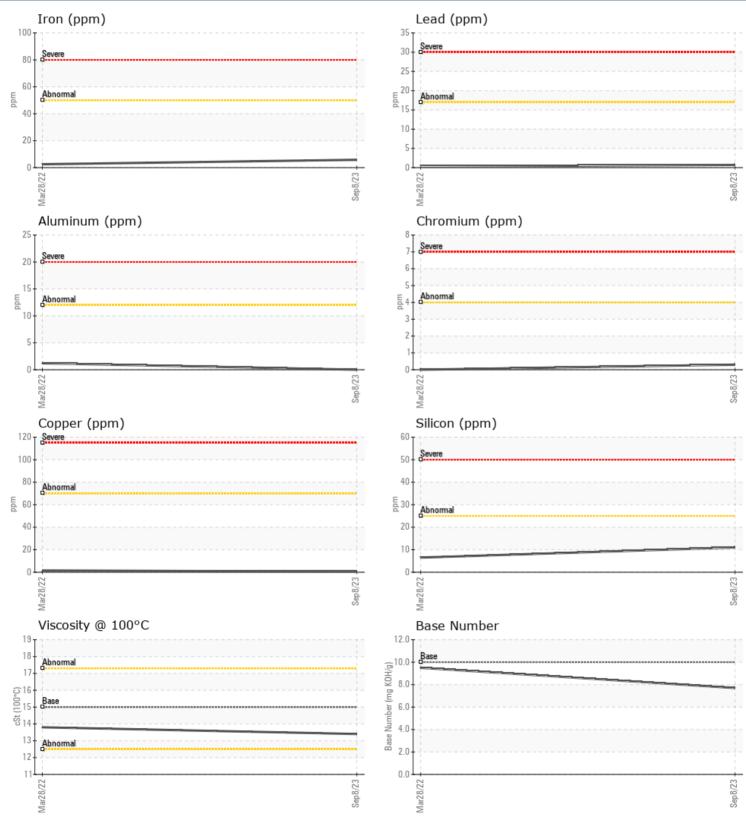
 Report Date:
 18 Sep 2023

Contact/Location: Service Manager - VP1298996

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#### GRAPHS



Report Id: VP1298996 [WUSCAR] 05950628 (Generated: 09/19/2023 01:31:50) Rev: 1

Contact/Location: Service Manager - VP1298996