OIL ANALYSIS REPORT

CARSTENSEN JB VOLVO PENTA A 166202 - STARBOARD DIESEL ENGINE

Sample No: VPA051623

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

Sample Number		VPA051623	VPA040215	
Sample Date		13 Mar 2024	17 Sep 2021	
Aachine Hours		898	573	
)il Hours		0	0	
Dil Changed		Changed	Changed	
ample Status		NORMAL	NORMAL	
OIL CONDITION				
isc @ 100°C	cSt	13.3	15.5	
ase Number (BN)	mg KOH/g	9.7		
xidation (PA)	%	67	88	
CONTAMINATION				
/ater	%	NEG	NEG	
oot %	%	0.2	0.3	
itration (PA)	%	65	95	
ulfation (PA)	%	57	68	
ilycol	%	NEG	NEG	
uel	%	<1.0	<1.0	
licon	ppm	3	4	
odium	ppm	0	2	
otassium	ppm	0	4	
WEAR METALS				
ron	ppm	7	14	
opper	ppm	6	16	
ead	ppm	0	5	
in	ppm	0	2	
luminum	ppm	0	2	
hromium	ppm	0	<1	
1olybdenum	ppm	61	47	
lickel	ppm	0	3	
itanium 	ppm	0	0	
ilver	ppm	0	0	
langanese	ppm	0	□ <1	
anadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1131	2339	
/lagnesium	ppm	1060	126	
linc	ppm	1306	1480	
hosphorus	ppm	1112	1116	
Barium	ppm	0	0	
loron	ppm	1	66	

Point Judith Marina

360 Gooseberry Road WAKEFIELD, RI US 02879 Contact: MATT ST. ANGELO service@pjmarina.com;canastasio@wearcheckusa.com T: (401)789-7189 F: (401)783-5350

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 acceptable for the time in service.

Signed: Don Baldridge Report Date: 21 Mar 2024

Contact/Location: MATT ST. ANGELO - VP153811

VP153811

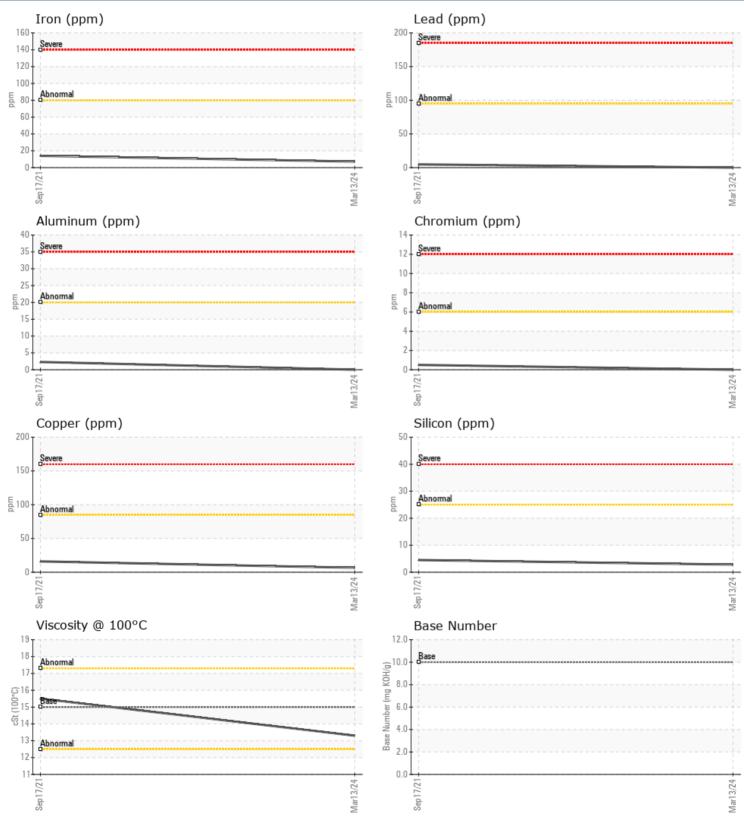
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OIL ANALYSIS REPORT



GRAPHS



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