OIL ANALYSIS REPORT

MCCULLY 23-2779 VOLVO PENTA 2006017895 - STARBOARD DIESEL ENGINE

Sample No: VPA021932

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

ample Number ample Date		VPA021932	VPA012262	
unpic Dute		06 Dec 2023	01 Aug 2018	
Aachine Hours		1396	655	
Dil Hours		200	0	
Dil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
isc @ 100°C	cSt	12.8	15.00	
ase Number (BN)	mg KOH/g	8.2		
idation (PA)	%	57	76	
ONTAMINATION				
ater	%	NEG	NEG	
oot %	%	0.3	0.1	
itration (PA)	%	67	68	
ulfation (PA)	%	57	6 1	
lycol	%	NEG	NEG	
uel	%	<1.0	< 1.0	
licon	ppm	6	4	
odium	ppm	33	4	
otassium	ppm	4	11	
WEAR METALS				
on	ppm	1 8	8	
pper	ppm	14	7	
ad	ppm	4	 <1	
ı	ppm	1	0	
uminum	ppm	2	2	
nromium	ppm	2	□ <1	
olybdenum	ppm	29	8	
ickel	ppm	2	 <1	
tanium	ppm	■ <1	 <1	
lver	ppm	0	0	
langanese	ppm	□ <1	□ <1	
anadium	ppm	0	0	
ADDITIVES				
alcium	ppm	1689	2080	
lagnesium	ppm	334	70	
inc	ppm	982	1118	
	ppm	826	1010	
hosphorus	ppin			
hosphorus arium	ppm	12	0	

Itstanding Marine

Box 274 LENA, MD 21635 ntact: Ronda Bolinger /b@verizon.net

iagnosis

esample at the next service interval monitor.All component wear rates e normal. There is no indication of ny contamination in the oil. The BN sult indicates that there is suitable kalinity remaining in the oil. The ondition of the oil is acceptable for e time in service.

Don Baldridge Signed: Report Date: 15 Dec 2023

Contact/Location: Ronda Bolinger - VP153685

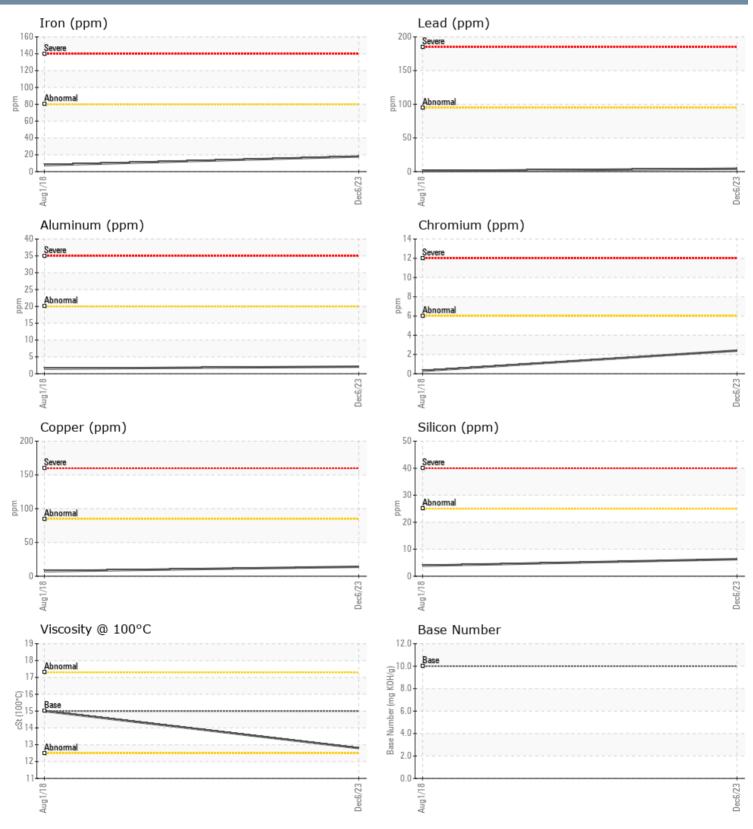
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OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ronda Bolinger - VP153685