OIL ANALYSIS REPORT

NADINE URCIUOLI SOLANO SHERIFF VOLVO PENTA A 1 166302 - CENTER DIESEL ENGINE

Sample No: VPA052307

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

mple Number		VPA052307	VPA055565	
mple Date		04 Apr 2024	29 Sep 2023	
achine Hours		406	209	
il Hours		406	209	
il Changed		Changed	Changed	
ample Status		NORMAL	NORMAL	
DIL CONDITION				
sc @ 100°C	cSt	12.7	12.78	
ase Number (BN)	mg KOH/g	9.8	9.4	
kidation (PA)	%	58	62	
ONTAMINATION				
ater	%	NEG	NEG	
oot %	%	0.4	0.2	
itration (PA)	%	53	48	
ulfation (PA)	%	53	54	
ycol	%	NEG	NEG	
iel	%	<1.0	< 1.0	
icon	ppm	7	18	
dium	ppm	2	3	
tassium	ppm	2	 <1	
EAR METALS				
on	ppm	1 9	17	
pper	ppm	8	12	
ad	ppm	2	3	
	ppm	2	2	
minum	ppm	2	4	
omium	ppm	1	1	
olybdenum	ppm	62	56	
ckel	ppm	2	3	
anium	ppm	■<1	0	
ver	ppm	0	0	
anganese	ppm	■ <1	<□<1	
nadium	ppm	<1	0	
ADDITIVES				
alcium	ppm	1146	1259	
agnesium	ppm	1007	864	
ic l	ppm	1237	1194	
osphorus	ppm	1061	972	
ium	ppm	∎1	0	
ron	ppm	2	14	

elmuts Marine Service

519 Canal Street SAN RAFAEL, CA JS 94901-3545 Contact: NADINE URCIUOLI ERVICE@HELMUTSMARINE.COM Г: х: X:

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.

Contact/Location: NADINE URCIUOLI - VP152741

Report Date:

VP152741

10979830

Don Baldridge

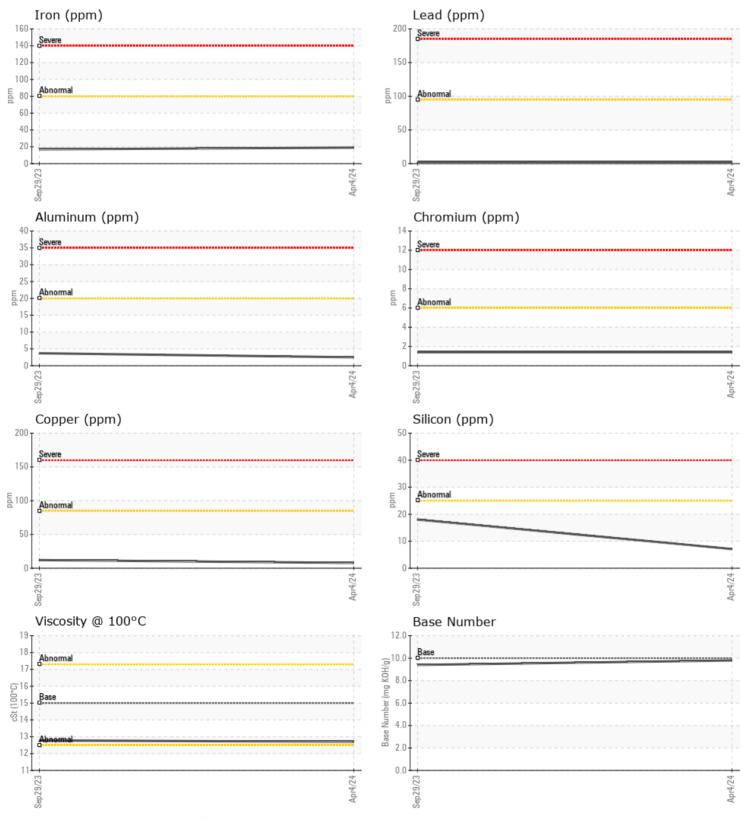
18 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP152741 [WUSCAR] 06149752 (Generated: 04/22/2024 12:08:42) Rev: 1

Contact/Location: NADINE URCIUOLI - VP152741