OIL ANALYSIS REPORT

NADINE UCIUOLI LUKAS SIMMONS VOLVO PENTA 3101028500 - INBOARD - CENTER GEARBOX

Sample No: VPA051580

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

SAMPLE INFORM						
Sample Number		VPA051580				Helmuts Marine Service
Sample Date		05 Feb 2024				619 Canal Street
Machine Hours		917				
Oil Hours		917				SAN RAFAEL, CA
Oil Changed		Changed				US 94901-3545
Sample Status		SEVERE				Contact: NADINE URCIUOLI
						SERVICE@HELMUTSMARINE.COM T: x:
OIL CONDITION						F: x:
Visc @ 40°C	cSt	103				1. A.
CONTAMINATIO	N					Diagnosis
						Oil and filter change at the time of
Water	%	NEG				sampling has been noted. We recommend an early resample to monitor this condition.The copper level is severe. Gear wear is indicate
Silicon	ppm	1 4				
Sodium	ppm	14				
Potassium	ppm	7				
WEAR METALS						Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the oil. The oil is no longer
PQ 242						
Iron	ppm	<u> </u>				serviceable as a result of the
Copper	ppm	1022				abnormal and/or severe wear.
Lead	ppm	11				
Tin	ppm	2				
Aluminum	ppm	96				
Chromium	ppm	■<1				
Molybdenum	ppm	2				
Nickel	ppm	0				
Titanium	ppm	1				
Silver	ppm	<1				
Manganese	ppm	8				
Vanadium	ppm	0				
	Phili	v				-
ADDITIVES						
Calcium	ppm	2288				
Magnesium	ppm	1 0				
Zinc	ppm	971				
Phosphorus	ppm	1068				
Barium	ppm	9				
Boron	ppm	53				
	1. 1					

 Depot:
 VP152741

 Unique No:
 10875174

 Signed:
 Jonathan Hester

 Report Date:
 15 Feb 2024

VOLVO PENTA

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GRAPHS

