



## KNEELAND C4980 VOLVO PENTA KNEELAND (S/N NOT GIVEN) - GENSET

Sample No: VPA044028

**Oil Type:** DIESEL ENGINE OIL SAE 30

SAMPLE INFORMAT	TION			
		VD4044020		
Sample Number		VPA044028	 	
Sample Date		23 Jul 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>12.5</b>	 	
Base Number (BN)	mg KOH/g	<b>■</b> 9.7	 	
Oxidation (PA)	%	53	 	
CONTAMINATION				
LUNIAMINATION				
Soot %	%	■ 0.1	 	
Nitration (PA)	%	43	 	
Sulfation (PA)	%	48	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>■</b> 4	 	
Sodium	ppm	<b>■3</b>	 	
Potassium	ppm	<b>-</b> <1	 	
- Ctassiaiii	Pp			
WEAR METALS				
Iron	ppm	<b>5</b>	 	
Copper	ppm	<b>■&lt;1</b>	 	
Lead	ppm	■0	 	
Tin	ppm	<b>■&lt;1</b>	 	
Aluminum	ppm	<b>■</b> <1	 	
Chromium	ppm	<b>1</b> <1	 	
Molybdenum	ppm	<b>62</b>	 	
Nickel	ppm	<b>0</b> 0	 	
Titanium		<b>■</b> <1	 	
Silver	ppm	■ < 1 ■ 0	 	
	ppm			
Manganese Vanadium	ppm	<b>□</b> <1 0	 	
vanadium	ppm	U	 	
ADDITIVES				
Calcium	ppm	<b>1108</b>	 	
Magnesium	ppm	<b>1004</b>	 	
Zinc	ppm	<b>1323</b>	 	
Phosphorus	ppm	<b>1104</b>	 	
Barium	ppm	■0	 	
Boron	ppm	<b>4</b>	 	
201011	PPIII			

## **Walstrom Marine**

501 Bay Street HARBOR SPRINGS, MI US 49740 Contact: RICK HEINY rheiny@walstrom.com

T: F:

## 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.

 Depot:
 VP154879

 Unique No:
 10566674

 Signed:
 Sean Felton

 Report Date:
 25 Jul 2023

## **OIL ANALYSIS REPORT**



