

OIL ANALYSIS REPORT

**VOLVO
PENTA**

KNEELAND - INBOARD C4980 ZF KNEELAND (S/N NOT GIVEN) - STARBOARD GEARBOX

Sample No: VPA044027

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA044027	---	---	---
Sample Date	23 Jul 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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

OIL CONDITION

Visc @ 40°C	cSt	■ 89.5	---	---	---
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CONTAMINATION

Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 0	---	---	---

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 condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		■ 30	---	---	---
Iron	ppm	■ 29	---	---	---
Copper	ppm	■ 27	---	---	---
Lead	ppm	■ 31	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	76	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1098	---	---	---
Magnesium	ppm	611	---	---	---
Zinc	ppm	864	---	---	---
Phosphorus	ppm	777	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	233	---	---	---

Depot: VP154879
Unique No: 10572441
Signed: Don Baldrige
Report Date: 26 Jul 2023

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GRAPHS

