

## NADINE URCIUOLI [BEN KOPF] Machine Id VOLVO PENTA 3950006145 Starboard IPS

# VOLVO PENTA GL-5 SAE 75W90 (4 GAL)

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

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#### **CONTAMINATION**

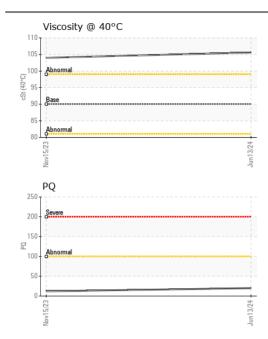
There is no indication of any contamination in the oil.

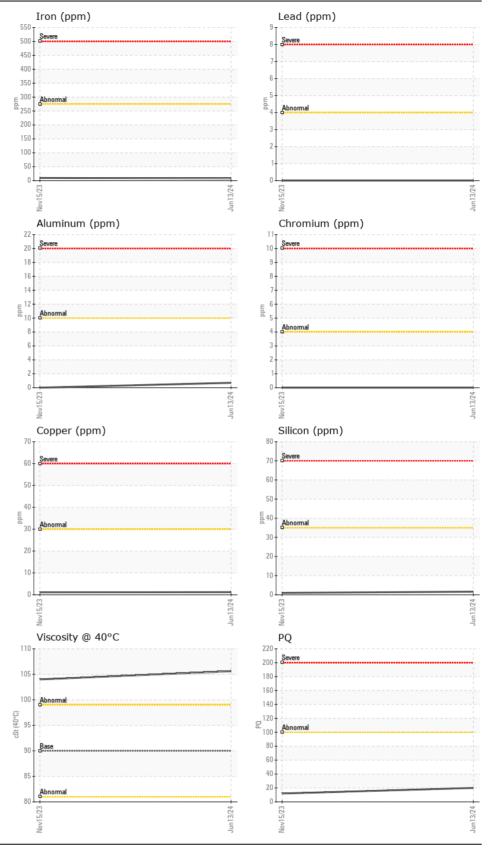
#### **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA062262	VPA059540	
Sample Date		Client Info		13 Jun 2024	15 Nov 2023	
Machine Age	hrs	Client Info		489	457	
Oil Age	hrs	Client Info		489	457	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Changed	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184		20	12	
Iron	ppm	ASTM D5185m	>275	8	9	
Chromium	ppm	ASTM D5185m	>4	0	0	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>4	0	0	
Copper	ppm	ASTM D5185m	>30	1	1	
Tin	ppm	ASTM D5185m	>3	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>35	2	1	
Potassium	ppm	ASTM D5185m	>20	4	0	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		2	2	
Boron	ppm	ASTM D5185m		289	307	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		8	36	
Calcium	ppm	ASTM D5185m		2	26	
Phosphorus	ppm	ASTM D5185m		1465	1415	
Zinc	ppm	ASTM D5185m		6	25	
Sulfur	ppm	ASTM D5185m		30032	22796	
Visc @ 40°C	cSt	ASTM D445	90.0	105.6	104	

Contact/Location: NADINE URCIUOLI - VP152741





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Helmuts Marine Service** Sample No. Received 619 Canal Street : VPA062262 : 19 Jun 2024 Lab Number : 06215241 Tested SAN RAFAEL, CA : 19 Jun 2024 Unique Number : 11088105 : 19 Jun 2024 - Doug Bogart US 94901-3545 Diagnosed Test Package : MOB 1 (Additional Tests: PQ) Contact: NADINE URCIUOLI Certificate L2367 SERVICE@HELMUTSMARINE.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. T: x: \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: