

# HELSEL [JB] VOLVO PENTA 3194011433 Starboard IPS

## GEAR OIL SAE 75W90 (4 GAL)

RECOMMENDATION
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Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

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#### **CONTAMINATION**

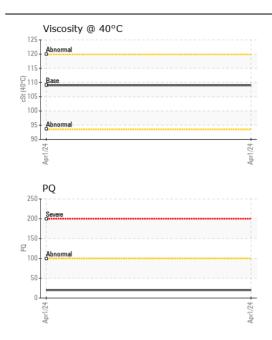
There is no indication of any contamination in the oil.

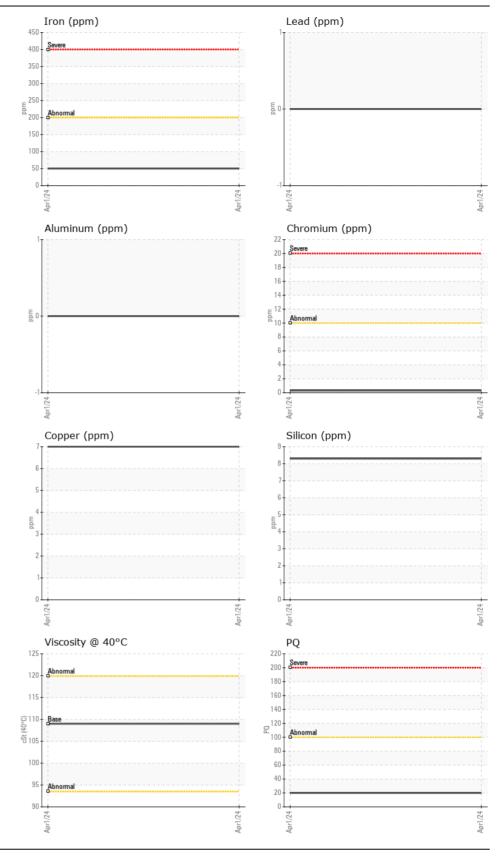
### **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Numb	ber	Client Info		VPA021937		
Sample Date	)	Client Info		01 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Change	ed	Client Info		Changed		
Sample Status			NORMAL			
<b>DO</b>						
PQ		ASTM D8184	000	20		
Iron	ppm	ASTM D5185m	>200	50		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		7		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Wa	ter scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		3		
Boron	ppm	ASTM D5185m	400	361		
Barium	ppm	ASTM D5185m	200	1		
Molybdenum		ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	12	13		
Calcium	ppm	ASTM D5185m	150	14		
Phosphorus	ppm	ASTM D5185m	1650	1468		
Zinc	ppm	ASTM D5185m	125	5		
Sulfur	ppm	ASTM D5185m	22500	27919		
Visc @ 40°C		ASTM D445	109	109		

Contact/Location: MATT ST. ANGELO - VP153811





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Point Judith Marina** Sample No. Received 360 Gooseberry Road : VPA021937 : 22 Apr 2024 Lab Number : 06156285 Tested WAKEFIELD, RI : 23 Apr 2024 Unique Number : 10991708 : 24 Apr 2024 - Sean Felton US 02879 Diagnosed Test Package : MOB 1 (Additional Tests: PQ) Contact: MATT ST. ANGELO Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. service@pjmarina.com;canastasio@wearcheckusa.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (401)789-7189 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (401)783-5350

Contact/Location: MATT ST. ANGELO - VP153811 Page 2 of 2