WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

NADINE URCIUOLI [ERIC BROWN]
Machine Id
VOLVO PENTA 3950008470

Port IPS

GEAR OIL SAE 75W90 (4 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA061271		
	Sample Date		Client Info		19 Jun 2024		
	Machine Age	hrs	Client Info		219		
	Oil Age	hrs	Client Info		219		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184		21		
	Iron	ppm	ASTM D5185m	>275	7		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	<1		
	Lead	ppm	ASTM D5185m	>4	0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>3	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	nnm	ASTM D5185m	- 25	2		
	Potassium	ppm	ASTM D5185m		2 4		
	Water	ppm	WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	301		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	12	9		
	Calcium	ppm	ASTM D5185m		4		
	Phosphorus	ppm	ASTM D5185m		1439		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		29088		
	Visc @ 40°C	cSt	ASTM D445		104		







Certificate L2367

Laboratory Sample No.

Unique Number : 11101977

: VPA061271 Lab Number : 06223780

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : MOB 1 (Additional Tests: PQ)

: 01 Jul 2024 : 01 Jul 2024 - Don Baldridge

: 28 Jun 2024

Helmuts Marine Service 619 Canal Street SAN RAFAEL, CA US 94901-3545

Contact: NADINE URCIUOLI SERVICE@HELMUTSMARINE.COM T: x:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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: