

NADINE URCIUOLI [MATT OLSON] Wachine Id VOLVO PENTA MATT OLSON (S/N NOT GIVEN)

Transmission (Auto)

VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (2 LTR)

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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		VPA062263		
	Sample Date		Client Info		24 Jun 2024		
	Machine Age	hrs	Client Info		4627		
	Oil Age	hrs	Client Info		4627		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184	<u>50</u>	01		
WEAR	Iron	nom	ASTM D5185m		21 18		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	>0	0		
	Silver	ppm	ASTM D5185m	> 5	0		
	Aluminum	ppm ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	20	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Water		WC Method	>0.1	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	187	109		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		81		
	Phosphorus	ppm	ASTM D5185m		243		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		1867		

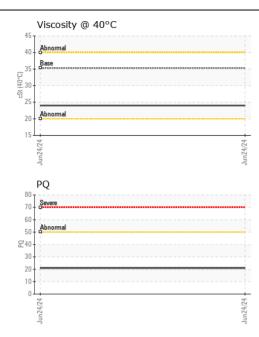
Visc @ 40°C

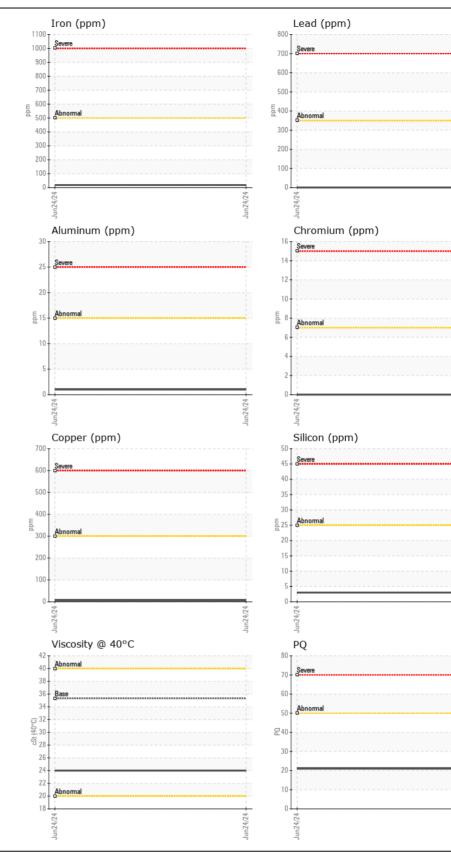
cSt

ASTM D445 35.3

Contact/Location: NADINE URCIUOLI - VP152741

24.0





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Helmuts Marine Service** Sample No. Received 619 Canal Street : VPA062263 : 28 Jun 2024 Lab Number : 06223782 Tested SAN RAFAEL, CA : 01 Jul 2024 Unique Number : 11101979 : 01 Jul 2024 - Don Baldridge US 94901-3545 Diagnosed Test Package : MOB 1 (Additional Tests: PQ) Contact: NADINE URCIUOLI Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. SERVICE@HELMUTSMARINE.COM 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:

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