

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Area NADINE URCIUOLI Machine Id VOLVO PENTA 3200002098 Component Starboard IPS

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA051894		
	Sample Date		Client Info		30 Jan 2024		
	Machine Age	hrs	Client Info		93		
	Oil Age	hrs	Client Info		93		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184		17		
WEAN	Iron	nnm	ASTM D8184 ASTM D5185m	> 200	17 11		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5105m ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5105m ASTM D5185m		ہ <1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m		۰ <1		
	Vanadium	ppm	ASTM D5185m		0		
				NONE	-		
	White Metal	scalar	*Visual		NONE		
	White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE	NONE		
	White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE	NONE		
CONTAMINATION							
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE >20	NONE 0		
	Yellow Metal Silicon Potassium	scalar ppm	*Visual ASTM D5185m ASTM D5185m	NONE >20	NONE 0 3		
	Yellow Metal Silicon Potassium Water	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method	NONE >20 >0.2	NONE 0 3 NEG		
	Yellow Metal Silicon Potassium Water Silt	scalar ppm ppm scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual	NONE >20 >0.2 NONE	NONE 0 3 NEG NONE NONE NONE	  	  
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual	NONE >20 >0.2 NONE NONE NORE	NONE 0 3 NEG NONE NONE NONE NORML	   	  
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NONE NORML NORML		  
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	NONE >20 >0.2 NONE NONE NORE	NONE 0 3 NEG NONE NONE NONE NORML		  
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar ppm ppm scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORE NORML NEG		  
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar ppm scalar scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORE NORML NEG		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar ppm scalar scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar ppm ppm scalar scalar scalar scalar scalar scalar gcalar	*Visual ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354 <1		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm	*Visual ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354 <1 0		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354 <1 0 2		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354 <1 0 2 133		
There is no indication of any contamination in the oil.	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.2 NONE NONE NORM NORML	NONE 0 3 NEG NONE NONE NORML NORML NEG 1 354 <1 0 2		

Zinc

Sulfur Visc @ 40°C

Contact/Location: NADINE URCIUOLI - VP152741

8

22747

104

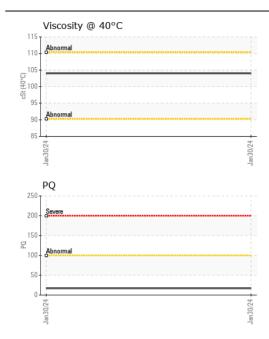
ASTM D5185m

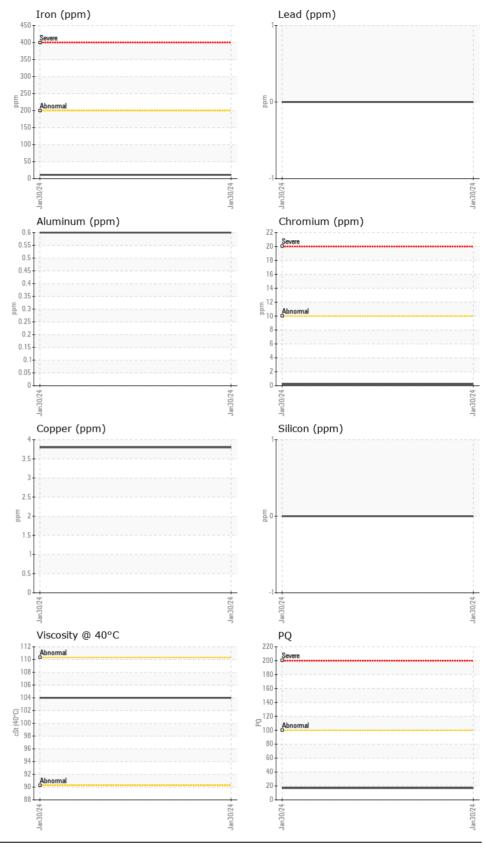
ASTM D445

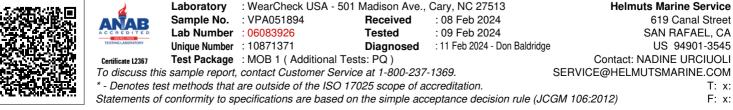
ppm ASTM D5185m

ppm

cSt







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