

## ANDREW PRETORIUS [SAM] Machine Id VOLVO PENTA 20132266238

## Port Diesel Engine

VOLVO PENTA SAE 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VPA058916		
	Sample Date		Client Info		19 Jun 2024		
	Machine Age	hrs	Client Info		239		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>80	26		
	Chromium	ppm	ASTM D5185m	>6	<1		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>20	19		
	Lead	ppm	ASTM D5185m	>95	<1		
	Copper	ppm	ASTM D5185m	>85	12		
	Tin	ppm	ASTM D5185m	>9	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		27		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	39		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	5.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7		
	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		
	Cadium				0		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		<1		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		953		
	Calcium	ppm	ASTM D5185m		1217		
	Phosphorus	ppm	ASTM D5185m		1148		
	Zinc	ppm	ASTM D5185m		1310		
	Sulfur	ppm	ASTM D5185m	05	3978		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	8.6		

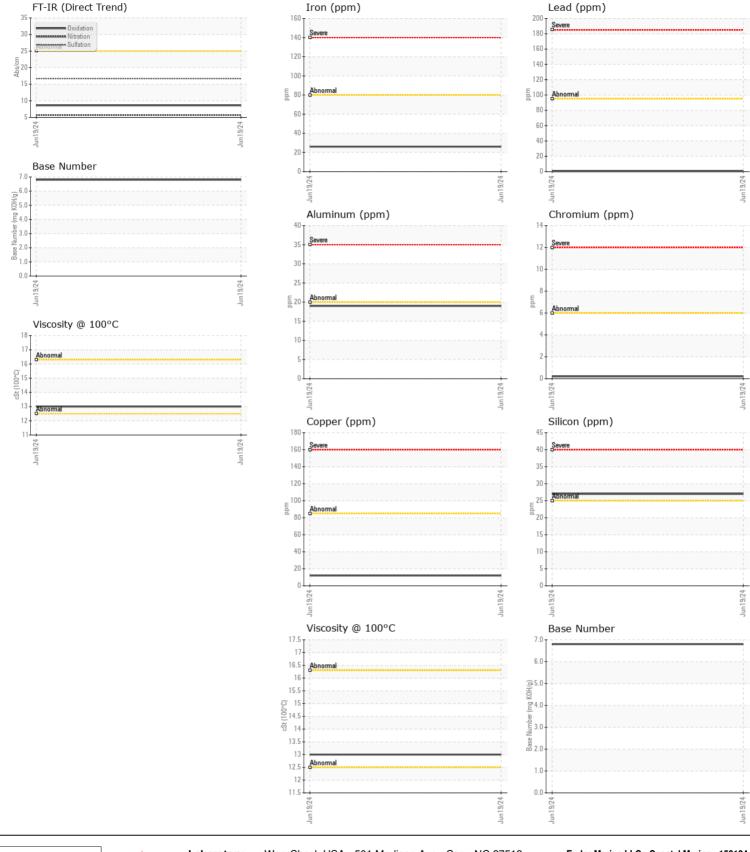
Base Number (BN) mg KOH/g ASTM D2896

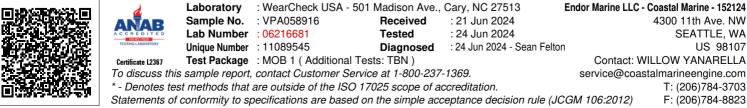
ASTM D445

Visc @ 100°C cSt

6.8

13.0





Contact/Location: WILLOW YANARELLA - VP794951