

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## VERHEEM [VERHEEM] Machine Id VOLVO PENTA A334203

## Port Diesel Engine

{not provided} (--- 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		VPA053615		
	Sample Date		Client Info		19 Apr 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>80	54		
	Chromium	ppm	ASTM D5185m	>6	1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5		
	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	6.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1		
	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		2		
	Boron		ASTM D5185m		151		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		10		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		137		
	Calcium	ppm	ASTM D5185m		2293		
	Phosphorus		ASTM D5185m		918		
	Zinc	ppm	ASTM D5185m		1190		
		ppm					
	Sulfur	ppm	ASTM D5185m	- 0F	4674		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4		

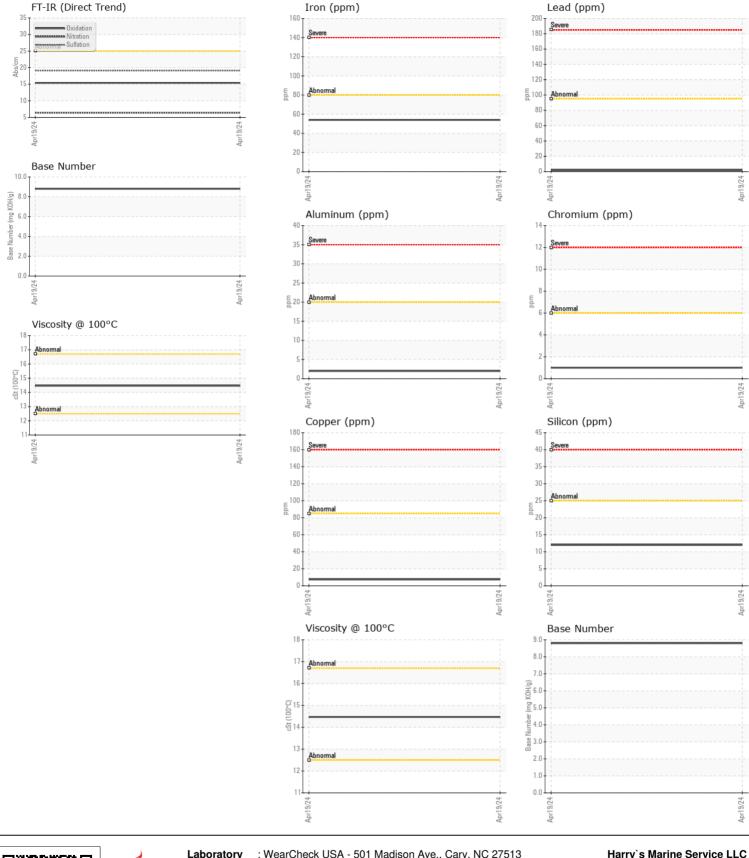
Base Number (BN) mg KOH/g ASTM D2896

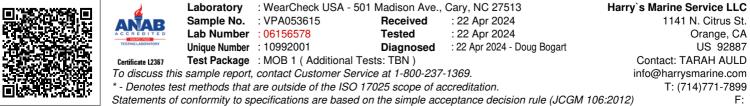
ASTM D445

Visc @ 100°C cSt

8.8

14.47





Contact/Location: TARAH AULD - VP867279 Page 2 of 2