

Area **RIDEAU BULK** Machine Id **VOLVO L220F 437253** Component **Diesel Engine** Fluid SAE 15W40 (--- GAL)

FLUID C

UOM

Method

Test

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMA

History1

History2

Limit/Abn Current

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

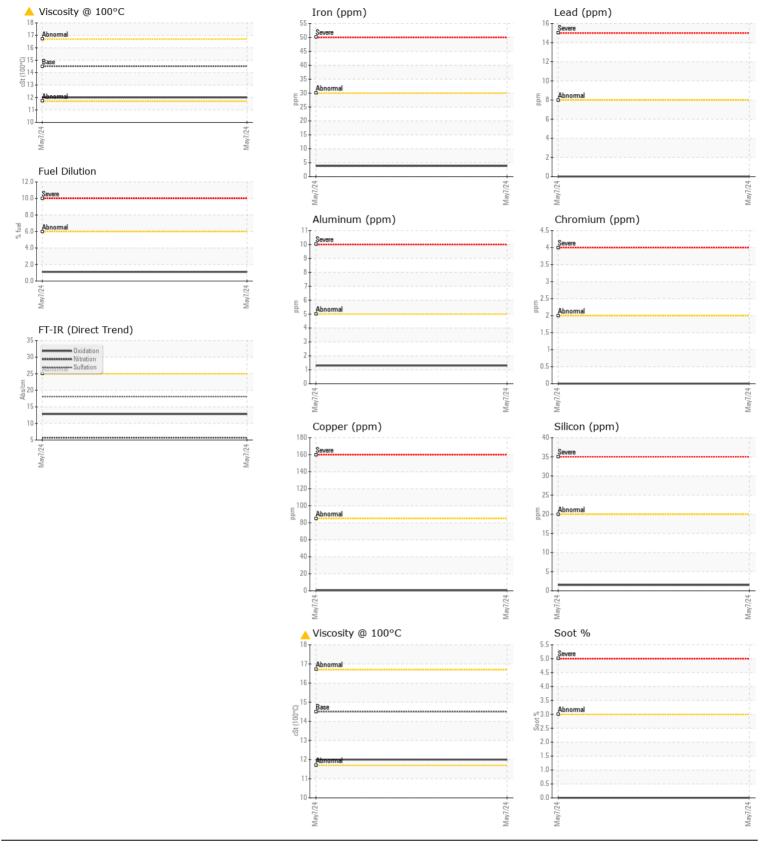
Light fuel dilution occurring. No other contaminants were detected in the oil.

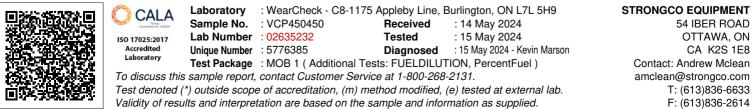
	1001	00101	mothod	LITTIO/ NOT	ouncill	Thotory	THOLOTYZ
	Sample Number		Client Info		VCP450450		
	Sample Date		Client Info		07 May 2024		
	Machine Age	hrs	Client Info		17243		
	Oil Age	hrs	Client Info		40		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
	Iron	ppm	ASTM D5185(m)	>30	4		
	Chromium	ppm	ASTM D5185(m)	>2	0		
	Nickel	ppm	ASTM D5185(m)	>4	0		
	Titanium	ppm	ASTM D5185(m)		30		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)	>5	1		
	Lead	ppm	ASTM D5185(m)	>8	0		
	Copper	ppm	ASTM D5185(m)	>85	<1		
	Tin	ppm	ASTM D5185(m)	>4	0		
	Vanadium	ppm	ASTM D5185(m)		0		
					•		
	Silicon	ppm	ASTM D5185(m)	>20	2		
	Potassium	ppm	ASTM D5185(m)	>20	2		
	Fuel	%	ASTM D7593*	>6.0	1.1		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0		
	Nitration	Abs/cm	ASTM D7624*	>20	5.7		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
	Sodium	ppm	ASTM D5185(m)	>57	4		
	Boron	ppm	ASTM D5185(m)	201	85		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		27		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium		ASTM D5185(m)		279		
	Calcium	ppm	ASTM D5185(m)		1460		
	Phosphorus	ppm	ASTM D5185(m)		866		
	•	ppm	. ,				
	Zinc	ppm	ASTM D5185(m)		949		
	Sulfur	ppm	ASTM D5185(m)	05	2726		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	12.8		
	Visc @ 100°C	cSt	ASTM D7279(m)	14.5	12.0		

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Contact/Location: Andrew Mclean - SHESTI Page 1 of 2





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