

Machine Id NOT GIVEN ML0002429 (S/N NO INFO ON SIF/BOTTLE) Componer **Diesel Engine**

{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

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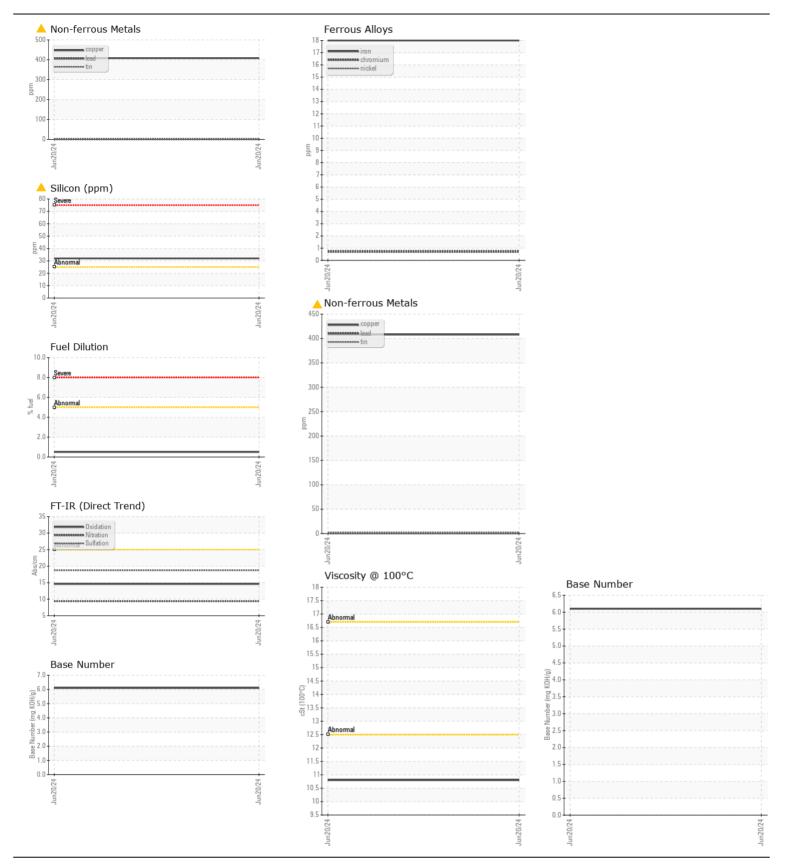
FLUID CONDITION

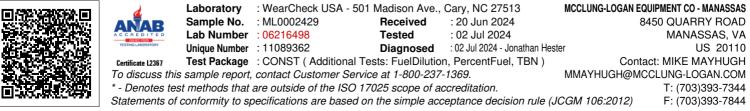
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0002429		
	Sample Date		Client Info		20 Jun 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				ABNORMAL		
	Iron	ppm	ASTM D5185m	>100	18		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	2		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	<b>408</b>		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	ppm	ASTM D5185m	>25	<mark>▲</mark> 32		
	Potassium	ppm	ASTM D5185m	>20	5		
	Fuel	%	ASTM D3524	>5	0.5		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
	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	>0.2	NEG		
	Sodium	ppm	ASTM D5185m		1		
	Boron	ppm	ASTM D5185m		61		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		89		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		53		
	Calcium	ppm	ASTM D5185m		2224		
	Phosphorus	ppm	ASTM D5185m		1034		
	Zinc	ppm	ASTM D5185m		1244		
	Sulfur	ppm	ASTM D5185m		3918		
	Oxidation	Abs/.1mm	*ASTM D3103111	>25	14.6		
	Base Number (BN)		ASTM D2896	~20	6.1		
	Visc @ 100°C	cSt	ASTM D2030 ASTM D445		10.8		
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The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.





Contact/Location: MIKE MAYHUGH - VOLVO0002