

OIL ANALYSIS REPORT

Machine Id **MB-CO. M2 CDRL B1 (S/N 15-1864)** Component **Rear Diesel Engine** Fluid **VALVOLINE PREMIUM BLUE (40 QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06011665		
	Sample Date		Client Info		19 Nov 2023		
	Machine Age	hrs	Client Info		569		
	Oil Age	hrs	Client Info		569		
	Filter Age	hrs	Client Info		569		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				MARGINAL		
	Iron	nnm	ASTM D5185m	> 100	11		
WEAR All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0 <1		
	Titanium	ppm ppm	ASTM D5185m	>4	0		
	Silver		ASTM D5185m	- 2	0		
	Aluminum	ppm ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		9		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	210	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Jouran	Vidual				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
	Potassium	ppm	ASTM D5185m	>20	1		
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D3524	>5	0.6		
the oil.	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9		
	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		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		3		
FLUID CONDITION	-	ppm	ASTM D5185m	20	-		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron Barium	ppm	ASTM D5185m		3 6		
	Molybdenum	ppm	ASTM D5185m		48		
	Manganese	ppm ppm	ASTM D5185m	0.0	3		
	Magnesium	ppm	ASTM D5185m	18	800		
	Calcium	ppm		2936	1176		
	Phosphorus	ppm	ASTM D5185m		988		
	Zinc	ppm	ASTM D5185m		1176		
	Sulfur	ppm	ASTM D5185m		2952		
	Oxidation		*ASTM D3103111		13.6		
		MU5/.111111	AGTIVI D7414	>20	13.0		

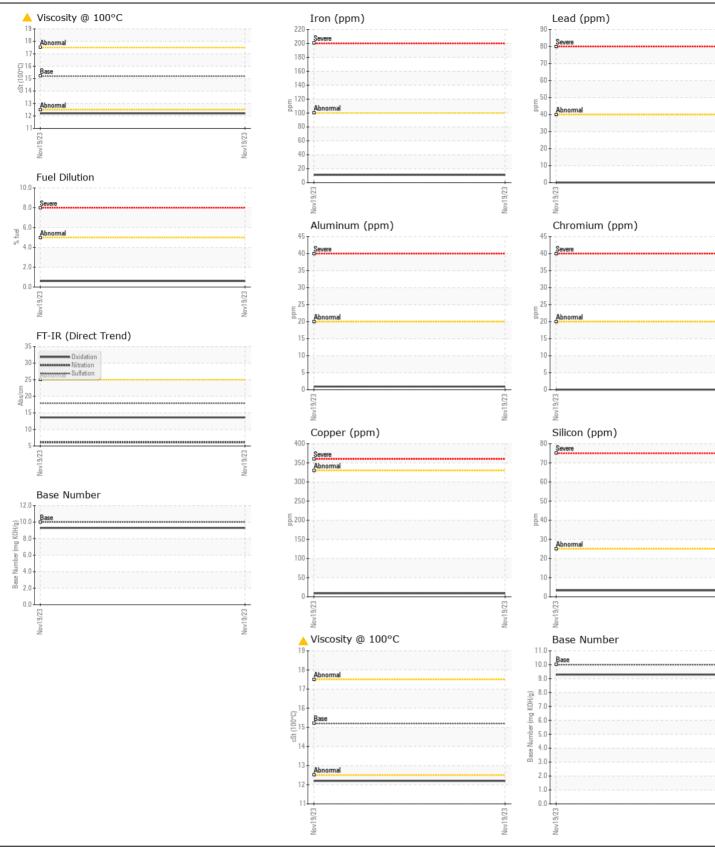
Base Number (BN) mg KOH/g ASTM D2896 10.0

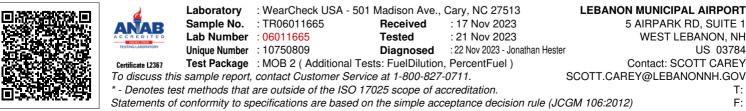
ASTM D445 15.2

Visc @ 100°C cSt

9.29

12.2





Contact/Location: SCOTT CAREY - LEBWES Page 2 of 2