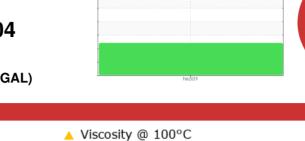


PROBLEM SUMMARY

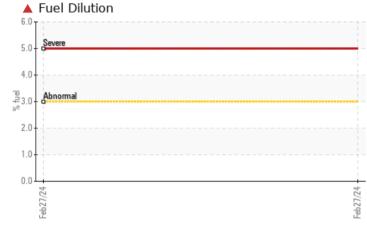
Sample Rating Trend
FUEL

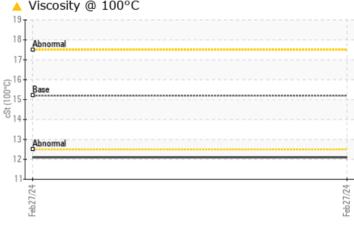
Machine Id MACK 924053-SW1404 Component Diesel Engine Fluid

MOBIL DELVAC ELITE 15W40 (--- GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATI	C TES	T RESULT	S		
Sample Status				SEVERE	
Fuel	%	ASTM D3524	>3.0	▲ 5.0	
Visc @ 100°C	cSt	ASTM D445	15.2	🔺 12.1	

Customer Id: GFL981 Sample No.: GFL0095461 Lab Number: 06148310 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Fuel/injector System			?	We advise that you check the fuel injection system.	

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id MACK 924053-SW1404 **Diesel Engine**

MOBIL DELVAC ELITE 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0095461		
We advise that you check the fuel injection system.	Sample Date		Client Info		27 Feb 2024		
The oil change at the time of sampling has been	Machine Age	hrs	Client Info		9544		
noted. We recommend an early resample to	Oil Age	hrs	Client Info		0		
monitor this condition.	Oil Changed		Client Info		Changed		
Wear	Sample Status				SEVERE		
All component wear rates are normal.				11 11 11			
Contamination	CONTAMINAT	ION	method	limit/base		history1	history2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Water Glycol		WC Method WC Method	>0.2	NEG NEG		
Fluid Condition							
The BN result indicates that there is suitable	WEAR METAL	.S	method	limit/base	current	history1	history2
alkalinity remaining in the oil. Fuel is present in the	Iron	ppm	ASTM D5185m	>120	6		
oil and is lowering the viscosity. The oil is no longer	Chromium	ppm	ASTM D5185m	>20	<1		
serviceable due to the presence of contaminants.	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>20	5		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	2		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	Cadmium	ppm	ASTM D5185m		<1		
				limit/booo	ourropt	biotonut	biotom 0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	iimii/base	71		nistory2
		ppm ppm		IIIII/base			
	Boron		ASTM D5185m	IIIII/base	71		
	Boron Barium	ppm	ASTM D5185m ASTM D5185m	Imitoase	71 9		
	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		71 9 129		
	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 9 129 <1		
	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 9 129 <1 640		
	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 9 129 <1 640 1266	 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 9 129 <1 640 1266 672	 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	71 9 129 <1 640 1266 672 832 3366	 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	71 9 129 <1 640 1266 672 832 3366		
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	71 9 129 <1 640 1266 672 832 3366 Current		
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >25	71 9 129 <1 640 1266 672 832 3366 current 6	 history1	 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	71 9 129 <1 640 1266 672 832 3366 Current 6 3	 history1	history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm ppm p	ASTM D5185m ASTM D5185m	limit/base >25 >20	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 \$ 5.0	 history1	 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm ppm p	ASTM D5185m ASTM D5185m	limit/base >25 >20 >3.0 limit/base	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 \$ 5.0	 history1 	history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm JTS ppm ppm	ASTM D5185m ASTM D5185m	limit/base >25 >20 >3.0 limit/base >4	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 € 5.0 Current	 history1 history1	 history2 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m	limit/base >25 >20 >3.0 limit/base >4 >20	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 5.0 Current 0.3	 history1 history1 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	<pre>ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm</pre>	ASTM D5185m ASTM D5185m	limit/base >25 >20 >3.0 limit/base >4 >20	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 5.0 Current 0.3 10.9 20.2	 history1 history1 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D7844	limit/base >25 >20 >20 >3.0 limit/base >4 >20 >30 >30	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 3 5.0 Current 0.3 10.9 20.2 Current		<t< th=""></t<>
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm JTS ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 >20 >3.0 limit/base >4 >20 >30 limit/base >25	71 9 129 <1 640 1266 672 832 3366 Current 6 3 3 ▲ 5.0 Current 0.3 10.9 20.2	 history1 history1 history1	

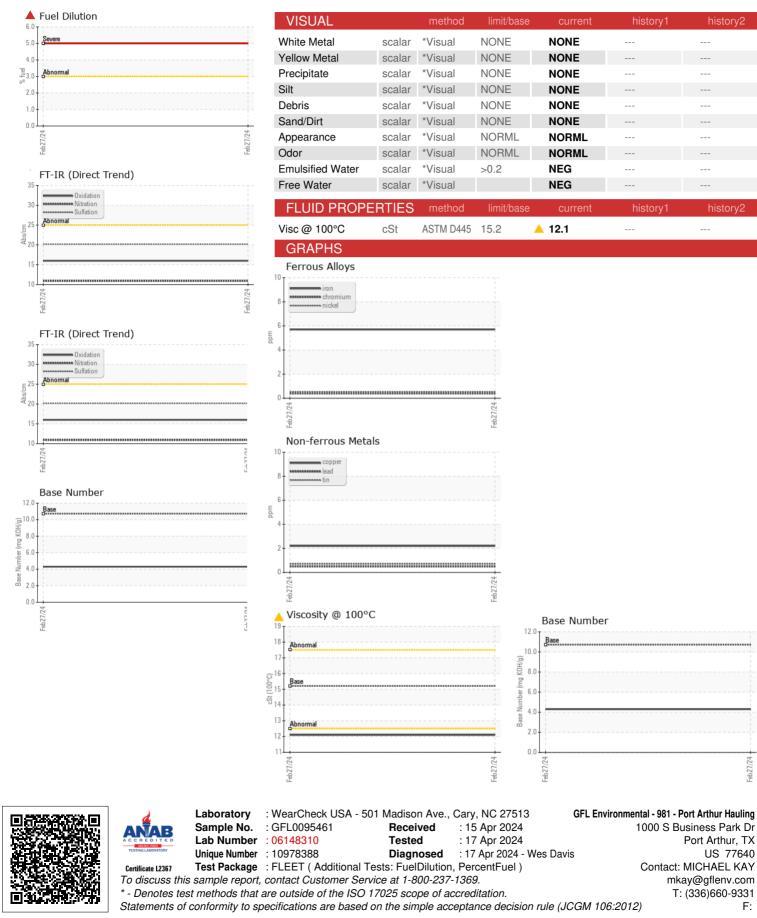


FUEL

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OIL ANALYSIS REPORT



Report Id: GFL981 [WUSCAR] 06148310 (Generated: 04/17/2024 16:37:55) Rev: 1

Submitted By: MICHAEL KAY