

9

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id MACK 425116 (S/N 1M2A Component Diesel Engine Fluid SHELL ROTELLA T 15W40 (		27864	4)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0109554		
	Sample Date		Client Info		18 Jun 2024		
	Machine Age	hrs	Client Info		3866		
	Oil Age	hrs	Client Info		600		
	Filter Age	hrs	Client Info		600		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron		ASTM D5185(m)	×120	5		
All component wear rates are normal.	Chromium	ppm ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		۰ <1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead	ppm	ASTM D5185(m)	>40	0		
	Copper	ppm	ASTM D5185(m)		3		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
		1-1-					
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*		8.6		
	Sulfation		ASTM D7415*	>30	21.8		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	35	141		
The condition of the on is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	10	12		

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

Phosphorus

ppm

ppm

ppm

ppm

Abs/.1mm

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2340

1210

ASTM D5185(m)

ASTM D5185(m)

 $\mathsf{ASTM}\,\mathsf{D5185}(\mathsf{m}) \quad 1\,1\,1\,0$ 

ASTM D5185(m) 3890

ASTM D7414\* >25

ASTM D7279(m) 15.7

1992

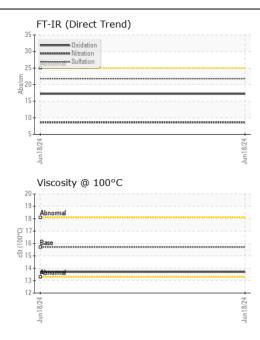
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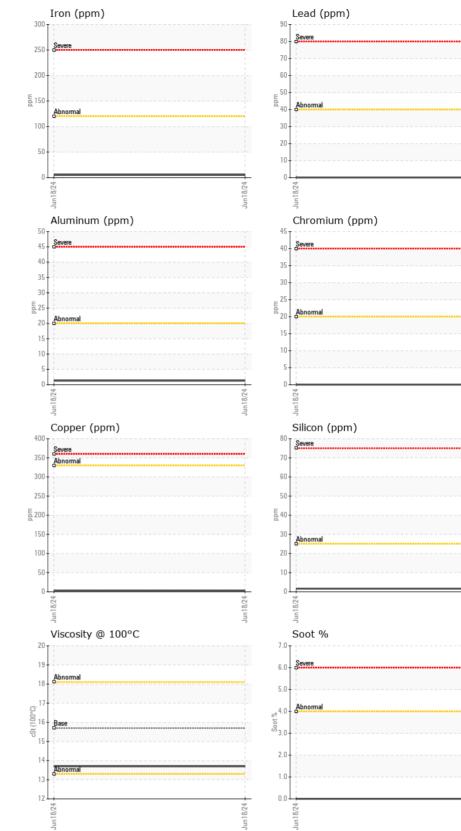
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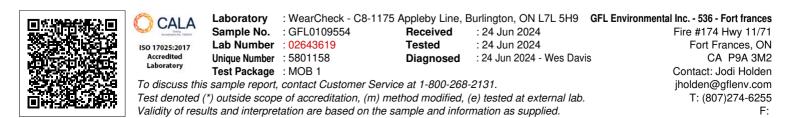
2789

17.2

13.7







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