

[37432] Machine Id FREIGHTLINER TR-48 Component Diesel Engine Fluid {not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified.

WEAR

Light concentration of visible metal present.

CONTAMINATION

Fuel content negligible. Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				_			
Test	UOM	Method	Limit/Abn	C	urrent	History1	History2
Sample Number		Client Info		CI	J0021811		
Sample Date		Client Info		08	Jan 2024		
Machine Age	kms	Client Info		23	36680		
Oil Age	kms	Client Info		0			
Filter Age	kms	Client Info		0			
Oil Changed		Client Info		No	ot Changd		
Filter Changed		Client Info		No	ot Changd		
Sample Status				AE	BNORMAL		
					•		
Iron	ppm	ASTM D5185(m)	>65		8		
Chromium	ppm	ASTM D5185(m)			<1		
Nickel	ppm	ASTM D5185(m)	>3		0		
Titanium	ppm	ASTM D5185(m)			0		
Silver	ppm	ASTM D5185(m)	>2		<1		
Aluminum	ppm	ASTM D5185(m)	>35		3		
Lead	ppm	ASTM D5185(m)	>10		<1 -		
Copper	ppm	ASTM D5185(m)	>180		7		
Tin	ppm	ASTM D5185(m)	>8		0		
Vanadium	ppm	ASTM D5185(m)			0		
White Metal	scalar	Visual*	NONE		LIGHT		
Yellow Metal	scalar	Visual*	NONE		NONE		
Cilicon			. 16		3		
Silicon	ppm	ASTM D5185(m)	>15		5		
Potassium	ppm	ASTM D5185(m)	>20	-	-		
Fuel	%	ASTM D7593*	>3.0		0.7		
Water		WC Method	>0.2		NEG		
Glycol	0/	WC Method	0		NEG		
Soot %	%	ASTM D7844*	>3		0		
Nitration	Abs/cm	ASTM D7624*	>20	_	5.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30		20.8		
Silt	scalar	Visual*	NONE		NONE		
Debris	scalar	Visual*	NONE		LTMOD		
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 D5185(m)			8		
Boron	ppm	ASTM D5185(m)			177		
Barium	ppm	ASTM D5185(m)			0		
Molybdenum	ppm	ASTM D5185(m)			28		
Manganese	ppm	ASTM D5185(m)			0		
Magnesium	ppm	ASTM D5185(m)			149		
Calcium	ppm	ASTM D5185(m)			1757		
Phosphorus		ASTM D5185(m)			802		
Zinc	ppm	ASTM D5185(m)			937		
Sulfur	ppm	ASTM D5185(m)			2560		
Oxidation	ppm Abs/.1mm	ASTM D5185(III) ASTM D7414*	>25		15.7		
		ASTM D7414 ASTM D7279(m)	>20				
Visc @ 100°C	cSt	MOTIVI D1219(III)			12.3		

WEAR

CONTAMINATION

FLUID CONDITION

ABNORMAL

ABNORMAL

NORMAL



