

Current

WC0772784

18 Mar 2024

18155

History1

History2

Limit/Abn

Machine Id FREIGHTLINER T-39 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)

Test

Sample Number

Sample Date

Machine Age

UOM

kms

Method

Client Info

Client Info

Client Info

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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Metal levels are typical for a components first oil change.

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Fuel content negligible. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Oil Age	kms	Client Info		18155	
Filter Age	kms	Client Info		18155	
Oil Changed		Client Info		Not Changd	
Filter Changed		Client Info		Not Changd	
Sample Status				NORMAL	
Iron	ppm	ASTM D5185(m)	>65	39	
Chromium	ppm	ASTM D5185(m)	>5	<1	
Nickel	ppm	ASTM D5185(m)	>3	<1	
Titanium	ppm	ASTM D5185(m)	>5	0	
Silver	ppm	ASTM D5185(m)	>2	0	
Aluminum	ppm	ASTM D5185(m)	>35	6	
Lead	ppm	ASTM D5185(m)	>10	5	
Copper	ppm	ASTM D5185(m)	>180	234	
Tin	ppm	ASTM D5185(m)	>8	2	
Vanadium	ppm	ASTM D5185(m)		0	
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Silicon	ppm	ASTM D5185(m)	>15	5	
Potassium	ppm	ASTM D5185(m)	>20	10	
Fuel	%	ASTM D7593*	>3.0	0.4	
Water		WC Method	>0.2	NEG	
Glycol		WC Method		NEG	
Soot %	%	ASTM D7844*	>3	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	8.0	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	
Emulsified Water	scalar	Visual*	>0.2	NEG	
Sodium	nom	ASTM D5185(m)		6	
Boron	ppm	. ,	250	33	
	ppm	ASTM D5185(m)	250		
Barium	ppm	ASTM D5185(m)	10	<1	
Molybdenum	ppm	ASTM D5185(m)	100	29	
Manganese	ppm	ASTM D5185(m)	450	3	
Magnesium	ppm	ASTM D5185(m)	450	344	
Calcium	ppm	ASTM D5185(m)	3000	1867	
Phosphorus	ppm	ASTM D5185(m)	1150	733	
Zinc	ppm	ASTM D5185(m)	1350	886	
Sulfur	ppm	ASTM D5185(m)	4250	2085	
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.9	
			0		

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Contact/Location: PAUL MONIZ - MIDHYD



