

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Locomotives

2007 Component Railway diesel Fluid RAILWAY ENGINE OIL SAE 40 (243 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

WEAR

Component wear rates appear to be normal (unconfirmed).

CONTAMINATION

There is no indication of any contamination in the oil.

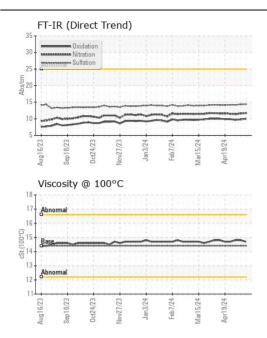
.....

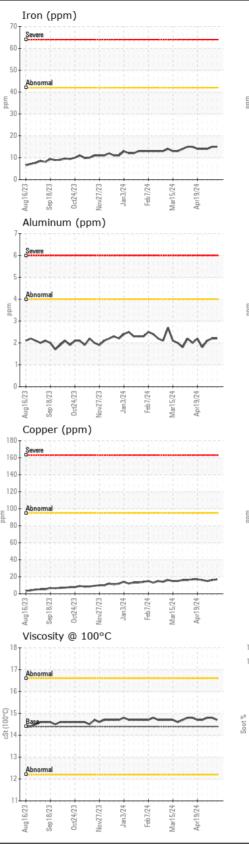
FLUID CONDITION

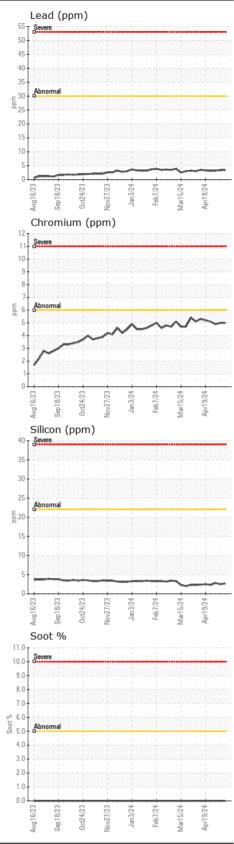
The condition of the oil is acceptable for the time in service (unconfirmed).

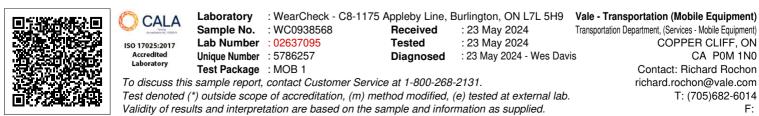
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0938568	WC0891397	WC0891386
Sample Date		Client Info		17 May 2024	10 May 2024	03 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron		ASTM D5185(m)	>42	15	15	14
Chromium	ppm	ASTM D5185(m)	>42	5	5	5
Nickel	ppm	ASTM D5185(m)	>2	-5 <1	0	0
Titanium	ppm	ASTM D5185(m)	>८	<1 0	0	0
Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)		2	2	2
Lead	ppm		>4	3	3	3
	ppm	ASTM D5185(m) ASTM D5185(m)	>30 >95	3 17	16	15
Copper Tin	ppm	(/	>95	3	2	2
Vanadium	ppm	ASTM D5185(m)	>10	0		0
vanaulum	ppm	ASTM D5185(m)			0	0
Silicon	ppm	ASTM D5185(m)	>22	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.7	11.6	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.4	14.3	14.2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		3	2	3
Boron	ppm	ASTM D5185(m)	10	<1	<1	<1
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	25	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	20	16	16	16
Calcium	ppm	ASTM D5185(m)	4500	4598	4516	4535
Phosphorus	ppm	ASTM D5185(m)	10	3	3	3
Zinc	ppm	ASTM D5185(m)	10	4	4	4
Sulfur	ppm	ASTM D5185(m)	5000	2832	2836	2859
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.0	9.8	9.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.7	14.8	14.8

Contact/Location: Richard Rochon - VALCOPTR









Contact/Location: Richard Rochon - VALCOPTR Page 2 of 2