

## **OIL ANALYSIS REPORT**

# Area [BOSTON] ALSTOM C067

Component

# Sample Rating Trend

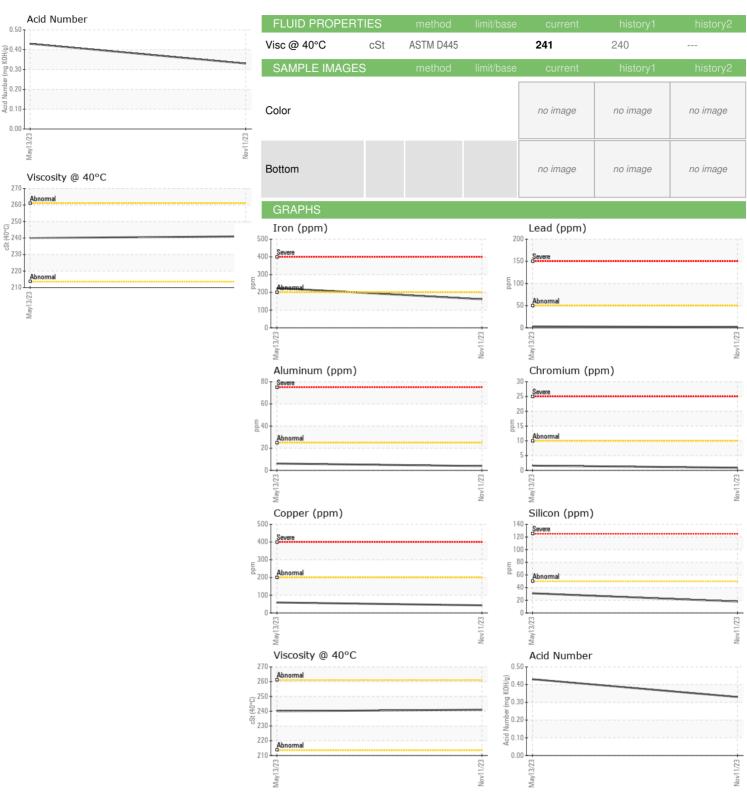


Front Left Gearbox							
TOTAL CARTER SH 220 ( GAL)							
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0798973	WC0781648	
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Nov 2023	13 May 2023	
Wear	Machine Age	hrs	Client Info		0	0	
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	
Contamination	Oil Changed		Client Info		N/A	N/A	
There is no indication of any contamination in the	Sample Status				NORMAL	ABNORMAL	
oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition The AN level is acceptable for this fluid. The	Iron	ppm	ASTM D5185m	>200	161	<u>^</u> 224	
condition of the oil is suitable for further service.	Chromium	ppm	ASTM D5185m	>10	<1	2	
	Nickel	ppm	ASTM D5185m	>10	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	4	6	
	Lead	ppm	ASTM D5185m	>50	2	3	
	Copper	ppm	ASTM D5185m	>200	43	59	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		2	2	
	Magnesium	ppm	ASTM D5185m		1	3	
	Calcium	ppm	ASTM D5185m		6	11	
	Phosphorus	ppm	ASTM D5185m		321	360	
	Zinc	ppm	ASTM D5185m		108	132	
	Sulfur	ppm	ASTM D5185m		2703	3402	
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	18	31	
	Sodium	ppm	ASTM D5185m		23	33	
	<b>5</b>					_	

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Silicon	ppm	ASTM D5185m	>50	18	31	
Sodium	ppm	ASTM D5185m		23	33	
Potassium	ppm	ASTM D5185m	>20	0	2	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.43	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
9:59:05) Rev: 1			Co	ntact/Location:	MICHAEL POR	TER - AMTRAK



### **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0798973 : 06011038 : 10750182 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023 Diagnosed : 20 Nov 2023 Diagnostician : Wes Davis

**AMTRAK** 1401 W STREET NE, HIGH SPEED RAIL 2ND FLOOR WASHINGTON, DC

US 20018 Contact: MICHAEL PORTER michael.porter@amtrak.com T: (202)870-1399

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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