

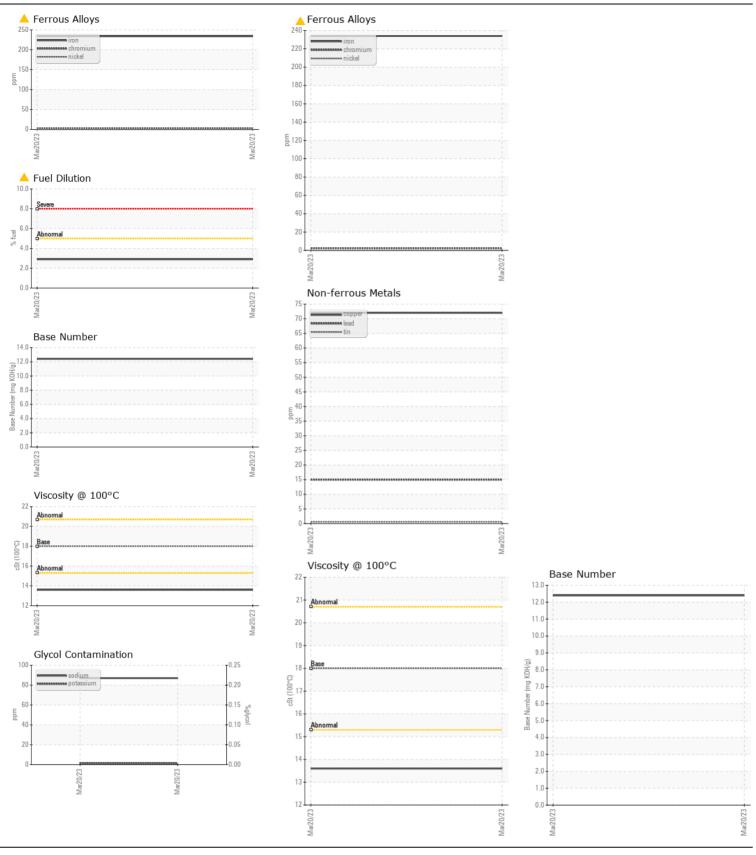
WEAR CONTAMINATION FLUID CONDITION

ABNORMAL MARGINAL ATTENTION

Area

KINGSTON
Machine Id
ALSTROM JRC 150

omponent Diesel Engine SAE 50W (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILOOMMENDATION	Sample Number	COM	Client Info	Little	KL0011039		
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		20 Mar 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		<u>234</u>		
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m		15		
	Copper	ppm	ASTM D5185m		72		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		11 1		
Sodium and/or potassium levels are high. Light fuel dilution occurring. Test for glycol is negative.	Fuel	ppm %		>5	1 ▲ 2.9		
	Water	/0	WC Method		NEG		
	Glycol	%	*ASTM D2982	<i>></i> 0.2	NEG		
	Soot %	%	*ASTM D7844	~3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	12.5		
	Sulfation	Abs/.1mm	*ASTM D7415		18.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		▲ 87		
he BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		<1		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		2		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		380		
	Calcium	ppm	ASTM D5185m		2678		
	Phosphorus	ppm	ASTM D5185m		531		
	Zinc	ppm	ASTM D5185m		590		
	Sulfur	ppm	ASTM D5185m		5637		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2		
	Base Number (BN)				12.4		
	Visc @ 100°C	cSt	ASTM D445	18.0	13.6		







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KL0011039 : 05801479 : 10391163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 24 Mar 2023 : 29 Mar 2023 Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

JAMAICA RAILWAY CORPORATION 142 BORY ST KINGSTON, ZZ

JM Contact: DONALD HANSON hansonrail@hotmail.com

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

T: F: