WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id

RO 91038

Component
Front Discol Engin

Front Diesel Engine								
MOBIL 15W40 (28 QTS)								
		 			11 5/AL			
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended	at this time. Resample at the	Sample Number		Client Info		WC0824090		
next service interval to monitor.		Sample Date	la	Client Info		16 Feb 2024		
		Machine Age	mls	Client Info		146760		
		Oil Age	mls	Client Info		5500		
		Filter Age	mls	Client Info		5500 N/A		
		Oil Changed Filter Changed		Client Info		N/A N/A		
		Sample Status		Client into		ABNORMAL		
						ADNUNINAL		
WEAR		Iron	ppm	ASTM D5185m	>100	19		
		Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal	•	Nickel	ppm	ASTM D5185m	>50	0		
		Titanium	ppm	ASTM D5185m	>2	21		
		Silver	ppm	ASTM D5185m	>2	0		
		Aluminum	ppm	ASTM D5185m	>50	4		
		Lead	ppm	ASTM D5185m	>40	<1		
		Copper	ppm	ASTM D5185m	>330	3		
		Tin	ppm	ASTM D5185m	>15	<1		
		Vanadium	ppm	ASTM D5185m		<1		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTABBINIATION		0.11		AOTM DE CO	05			
CONTAMINATION		Silicon	ppm	ASTM D5185m		<u>^</u> 27		
Elemental level of silicon (Si) above n material. Light fuel dilution occurring.	normal indicating ingress of seal	Potassium	ppm	ASTM D5185m		0		
		Fuel	%	ASTM D3524	>5	▲ 2.7		
		Water		WC Method	>0.2	NEG		
		Glycol	%	WC Method	. 0	NEG		
		Soot % Nitration	Abs/cm	*ASTM D7844 *ASTM D7624	>20	0.1 6.3		
		Sulfation	Abs/.1mm	*ASTM D7024		16.0		
		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			>0.2	NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185m	>118	<1		
Fuel is present in the oil and is lowering indicates that there is suitable alkalinities.	•	Boron	ppm	ASTM D5185m		125		
		Barium	ppm	ASTM D5185m		0		
		Molybdenum	ppm	ASTM D5185m		34		
		Manganese	ppm	ASTM D5185m		<1		
		Magnesium	ppm	ASTM D5185m		541		
		Calcium	ppm	ASTM D5185m		1032		
		Phosphorus	ppm	ASTM D5185m		677		
		Zinc	ppm	ASTM D5185m		789		
		Sulfur	ppm	ASTM D5185m		2622		
		Oxidation	Abs/.1mm	*ASTM D7414	>25	10.4		
		Base Number (BN)				6.7		
		Visc @ 100°C	cSt	ASTM D445		9.1		





Certificate L2367

Laboratory Sample No.

Lab Number : 06097391

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0824090

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Received **Tested** Unique Number: 10890244

: 26 Feb 2024 : 26 Feb 2024 - Sean Felton Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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

: 22 Feb 2024

Contact: BRIAN CONNOLLY bconnolly@atelbus.com

ATEL BUS & TRUCK

12120 CONWAY RD

BELTSVILLE, MD

US 20705

T: (301)210-5100 F: (301)210-5102

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)