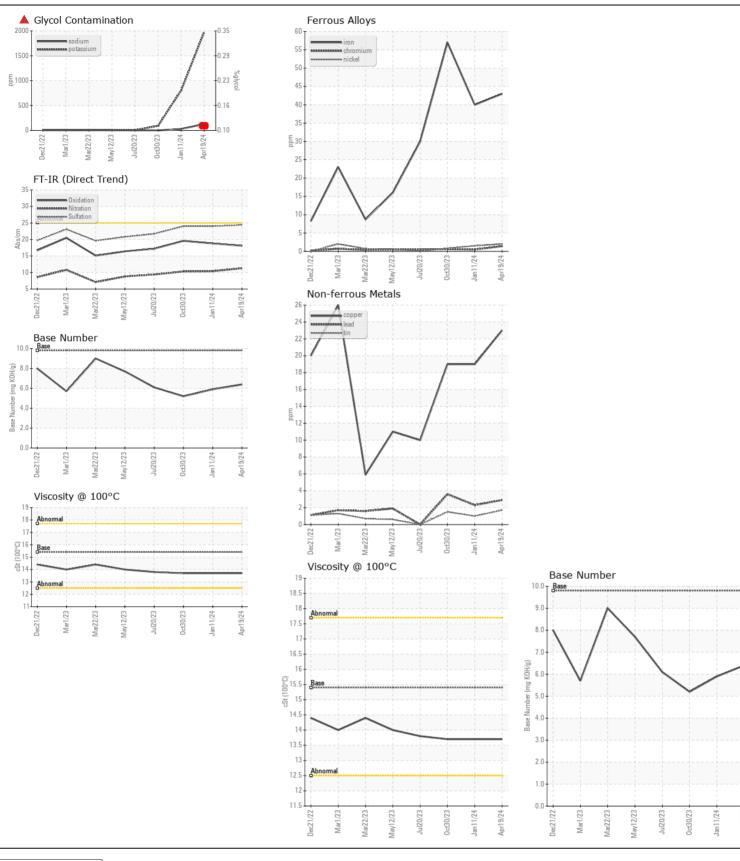
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

8607 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		NL0002035	NL0001838	NL000169
	Sample Date		Client Info		19 Apr 2024		30 Oct 202
	Machine Age	mls	Client Info		370484	330155	292190
	Oil Age	mls	Client Info		45000	45000	45000
	Filter Age	mls	Client Info		45000	45000	45000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	43	40	57
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	2	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	14	8	5
	Lead	ppm	ASTM D5185m	>40	3	2	4
	Copper	ppm	ASTM D5185m	>330	23	19	19
	Tin	ppm	ASTM D5185m	>15	2	1	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	9	11
Sodium and/or potassium levels are high. Test for glycol is positive.	Potassium	ppm	ASTM D5185m	>20	<u> </u>	<u></u> 801	4 91
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.12	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.8	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	11.3	10.4	10.3
	Sulfation	Abs/.1mm	*ASTM D7415		24.4	24.0	24.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<u> </u>	<u>^</u> 27	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		8	<1	1
oil.	Barium	ppm	ASTM D5185m		2	<1	5
	Molybdenum	ppm	ASTM D5185m		128	70	68
	Manganese	ppm	ASTM D5185m		2	<1	1
	Magnesium	ppm	ASTM D5185m		845	851	928
	Calcium	ppm	ASTM D5185m		1118	1092	1166
	Phosphorus	ppm	ASTM D5185m		831	914	1025
	Zinc	ppm	ASTM D5185m		1198	1121	1238
	Sulfur	ppm	*ASTM D5185m		3070 18.1	2965 18.8	2911 19.6
			- A > 1 N/11/414	>/5	1 X 1	188	196
	Oxidation Base Number (BN)	Abs/.1mm			6.4	5.9	5.2







Certificate L2367

Report Id: FOXMAN [WUSCAR] 06217843 (Generated: 06/25/2024 18:22:09) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : NL0002035 Lab Number : 06217843

Unique Number : 11096040 Test Package: FLEET (Additional Tests: Glycol)

Received **Tested**

Diagnosed

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Jonathan Hester

FOX & JAMES NATIONALEASE - Manassas 1145 INDUSTRIAL RD MANASSAS, VA US 20109

> Contact: JOSH ROLAND j.roland@foxandjames.com T: (571)379-5296

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)

Contact/Location: JOSH ROLAND - FOXMAN