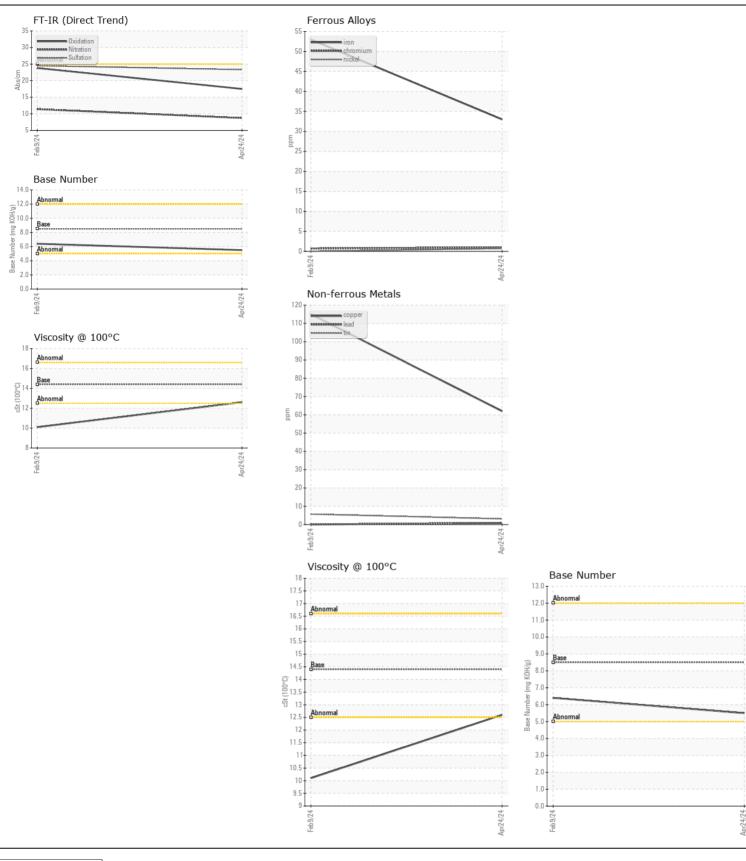
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

8777
Component
Diesel Engine

RECOMMENDATION Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		NL0002039	NL0001843	
	Sample Date		Client Info		24 Apr 2024	09 Feb 2024	
	Machine Age	mls	Client Info		78569	39406	
	Oil Age	mls	Client Info		45000	40000	
	Filter Age	mls	Client Info		45000	40000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	33	53	
	Chromium	ppm	ASTM D5185m	>20	1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	\3	1	0	
	Aluminum	ppm	ASTM D5185m		11	26	
	Lead		ASTM D5185m		<1 <1	0	
	Copper	ppm	ASTM D5185m		62	115	
	Tin	ppm	ASTM D5185m		3	6	
	Vanadium	ppm	ASTM D5185m	>10	ა <1	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
······		scalar	visuai	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		15	△ 69	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		27	66	
	Fuel		WC Method		<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.7	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	11.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	24.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	4	
	Boron	ppm	ASTM D5185m		77	98	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	<1	
	Molybdenum	ppm	ASTM D5185m		88	119	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m	450	473	716	
	Calcium	ppm	ASTM D5185m		1387	1536	
	Phosphorus	ppm	ASTM D5185m		977	722	
	Zinc	ppm	ASTM D5185m		1201	853	
	Sulfur	ppm	ASTM D5185m		2667	2620	
		Abs/.1mm	*ASTM D7414		17.5	23.8	
	()xidation						
	Oxidation Base Number (BN)				5.5	6.4	







Certificate L2367

Laboratory Sample No.

: NL0002039 Lab Number : 06217840 Unique Number : 11096037 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis

FOX & JAMES NATIONALEASE - Manassas

1145 INDUSTRIAL RD MANASSAS, VA US 20109

Contact: JOSH ROLAND j.roland@foxandjames.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)

Report Id: FOXMAN [WUSCAR] 06217840 (Generated: 06/25/2024 04:42:38) Rev: 1

T: (571)379-5296