WEAR CONTAMINATION **FLUID CONDITION**

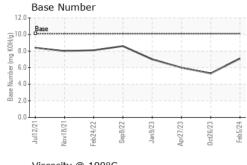
NORMAL NORMAL NORMAL

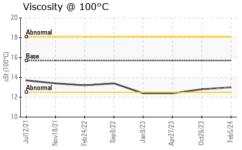
Machine Id

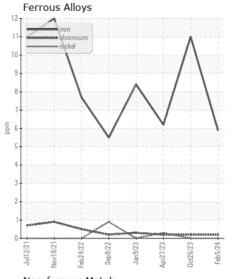
1009

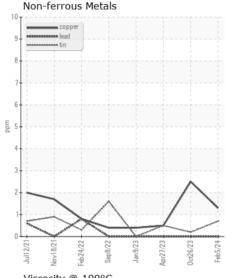
Component Diesel Engine

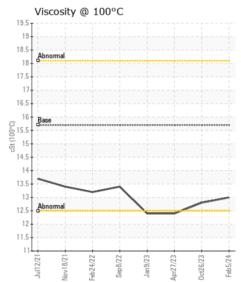
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0195166	JR0184562	JR015982
	Sample Date		Client Info		05 Feb 2024	26 Oct 2023	27 Apr 202
	Machine Age	hrs	Client Info		10757	7493	6828
	Oil Age	hrs	Client Info		500	1000	500
	Filter Age	hrs	Client Info		500	1000	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	MARGINA
VEAR	Iron	ppm	ASTM D5185m		6	11	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	2	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	3
	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.8	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	19.6	15.4
	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	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THE CONDITION			40TH DE (05				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.1.0	<1	3	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	6	9
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	3	0
	Molybdenum	ppm	ASTM D5185m	1.2	2	2	5
	Manganese	ppm	ASTM D5185m	0.4	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		44	99	50
	Calcium	ppm	ASTM D5185m		2079	1960	2218
	Phosphorus	ppm	ASTM D5185m		916	885	873
	Zinc	ppm	ASTM D5185m		1058	955	1058
	Sulfur	ppm	ASTM D5185m		3789	3118	4135
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		9.6 7.1	12.2 5.3	9.6

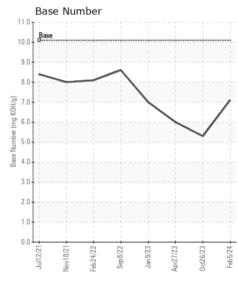














Laboratory Sample No. **Lab Number** : 06089414

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0195166

Unique Number: 10876859 Test Package : CONST (Additional Tests: TBN)

Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 Diagnosed

: 15 Feb 2024 - Wes Davis

PATRIOT DEVELOPMENT CORP 22721 LADBROOK DRIVE STE 120 STERLING, VA

US 20166 Contact: ROBERT MOSS

robert.moss@patriotdev.net T:

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)

Submitted By: BRANDON STEVENS

F: