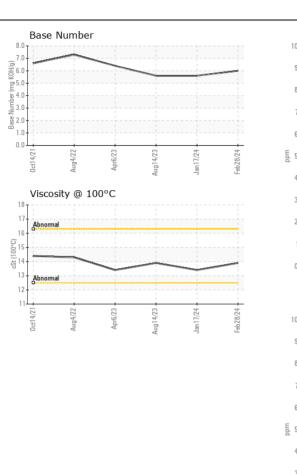
WEAR CONTAMINATION **FLUID CONDITION**

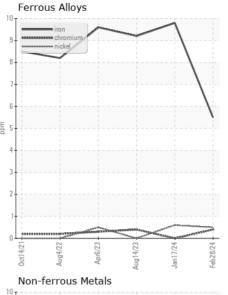
NORMAL NORMAL NORMAL

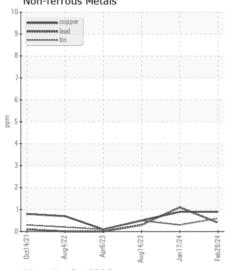


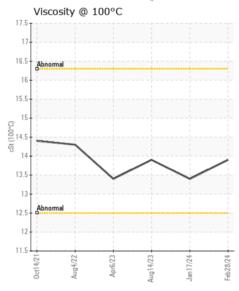
Area [W27227] **5026** Component Diesel Engine

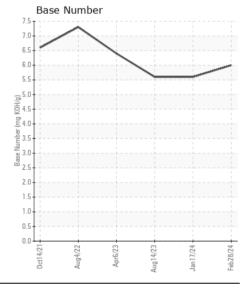
UNITED OIL DURALENE (GA	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0169943	-	JR0169442
	Sample Date		Client Info		28 Feb 2024	17 Jan 2024	14 Aug 2023
	Machine Age	hrs	Client Info		0	5593	5293
	Oil Age	hrs	Client Info		0	250	1000
	Filter Age	hrs	Client Info		0	250	1000
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	10	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	3
	Lead	ppm	ASTM D5185m	>40	<1	1	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	7	6
	Potassium	ppm	ASTM D5185m	>20	2	4	2
There is no indication of any contamination in the oil.	Fuel		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	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.3	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.1	20.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		3	4	8
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	2	2
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		47	44	43
	Calcium	ppm	ASTM D5185m		2220	2221	2347
	Phosphorus	ppm	ASTM D5185m		839	874	887
	Zinc	ppm	ASTM D5185m		1030	1068	1143
	Sulfur	ppm	ASTM D5185m		3734	3427	4416
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.1	13.4
	Base Number (BN)		ASTM D2896		6.0	5.6	5.6
	Visc @ 100°C	cSt	ASTM D445		13.9	13.4	13.9













Laboratory Sample No. Lab Number : 06123504

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0169943

Test Package : CONST (Additional Tests: TBN)

Unique Number : 10937655

Received Tested Diagnosed

: 20 Mar 2024 : 21 Mar 2024

: 22 Mar 2024 - Don Baldridge

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)

F: