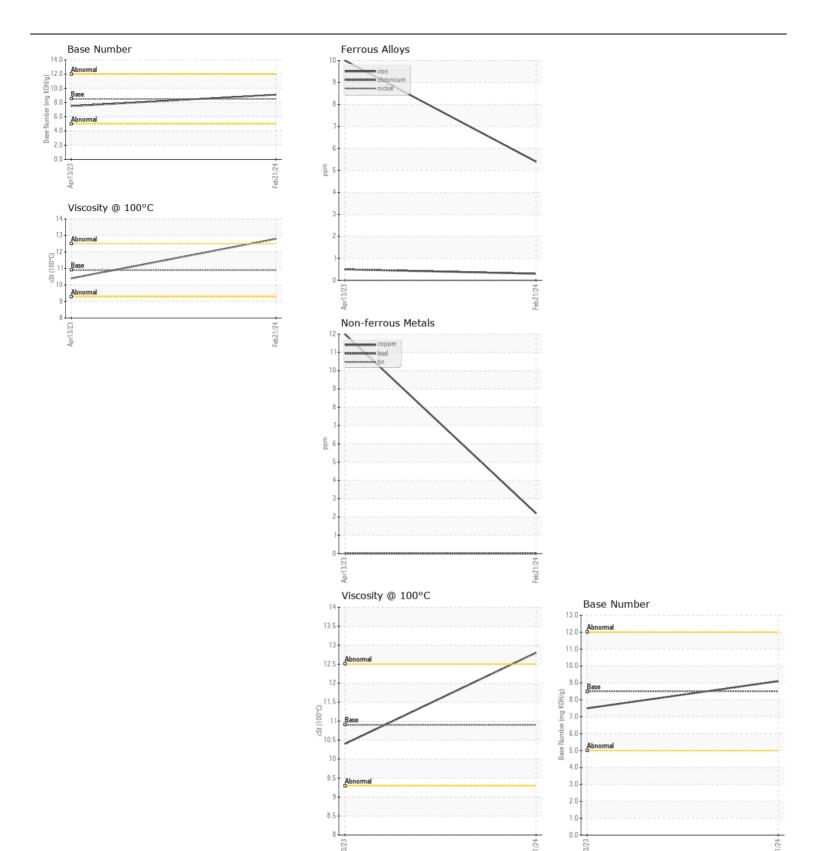
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[COMMONWEALTH EVENT]

AVANT 528 108365

Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0000829	VCP421118	
Resample at the next service interval to monitor.	Sample Date		Client Info		21 Feb 2024	13 Apr 2023	
	Machine Age	hrs	Client Info		192	88	
	Oil Age	hrs	Client Info		108	88	
	Filter Age	hrs	Client Info		108	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	5	10	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	12	
	Tin	ppm	ASTM D5185m	>15	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	26	
SSITTAMINATION	Potassium	ppm	ASTM D5185m		2	0	
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method		- <1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	7 0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	4.0	
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	12.1	
	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	
ELUID CONDITION	Cadiona		ACTM DE105		•	^	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	250	3	0	
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		41	5	
	Barium	ppm	ASTM D5185m		0	3	
	Molybdenum	ppm	ASTM D5185m	100	43	13	
	Manganese	ppm	ASTM D5185m	150	<1 700	2	
	Magnesium	ppm	ASTM D5185m		798	833	
	Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	3000	1226	1347 1049	
	•	ppm	ASTM D5185m		718 970		
	Zinc Sulfur	ppm	ASTM D5185m		879 2395	1269 4017	
	Oxidation						
	Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		16.3 9.1	7.5 7.5	
	Visc @ 100°C		ASTM D2896 ASTM D445			10.4	
	visc @ 100°C	cSt	MOTIVI D445	10.9	12.8	10.4	







Laboratory Sample No.

Lab Number : 06098928

: ML0000829

Tested Unique Number : 10897158 Diagnosed Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Feb 2024 : 26 Feb 2024

: 26 Feb 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND

1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060

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Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.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)

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