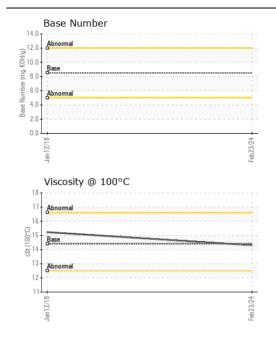
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

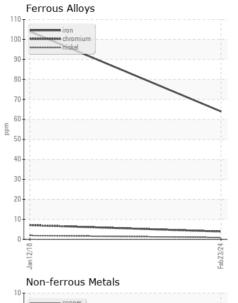
Machine Id

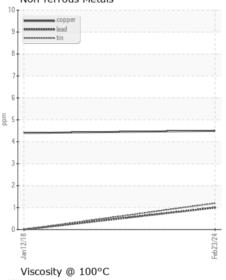
## **LAY-MOR BR-1**

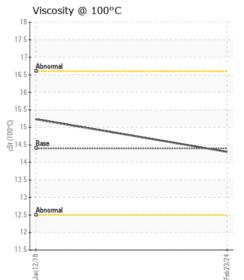
Component Diesel Engine

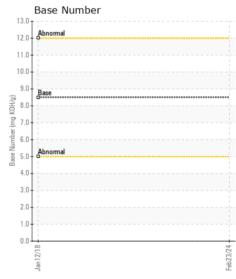
ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		CL0005160	CLMC162889	
	Sample Date		Client Info		23 Feb 2024	12 Jan 2018	
	Machine Age	hrs	Client Info		1248	994	
	Oil Age	hrs	Client Info		254	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	64	104	
Motel levels are typical for a new component breaking in	Chromium	ppm	ASTM D5185m	>20	4	7	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	<1	2	
	Titanium	ppm	ASTM D5185m		1	4	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	27	▲ 58	
	Lead	ppm	ASTM D5185m	>40	1	0	
	Copper	ppm	ASTM D5185m	>330	4	4	
	Tin	ppm	ASTM D5185m		1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	50	<u> </u>	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	8	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0	
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1	18.	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	5	
	Boron	ppm	ASTM D5185m	250	10	48	
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	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	64	48	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m	450	895	531	
	Calcium	ppm	ASTM D5185m	3000	1315	2665	
	Phosphorus	ppm	ASTM D5185m	1150	973	1121	
	Zinc	ppm	ASTM D5185m	1350	1221	1348	
	Sulfur	ppm	ASTM D5185m	4250	2973	4057	
	Oxidation	Abs/.1mm	*ASTM D7414		11.2	14.	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7		
	Visc @ 100°C	cSt	ASTM D445		14.3	15.23	













Report Id: BULCHANC [WUSCAR] 06097383 (Generated: 02/24/2024 07:01:33) Rev: 1

Laboratory Sample No.

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

Lab Number : 06097383 Unique Number : 10890236

: CL0005160 Received **Tested** Diagnosed

: 23 Feb 2024 : 23 Feb 2024 - Wes Davis

: 22 Feb 2024

Contact: SERVICE MANAGER

**BULLSEYE CONSTRUCTION** 

Test Package : CONST (Additional Tests: TBN) 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: JEFF CHALMERS

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PINEVILLE, NC

US 28134

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