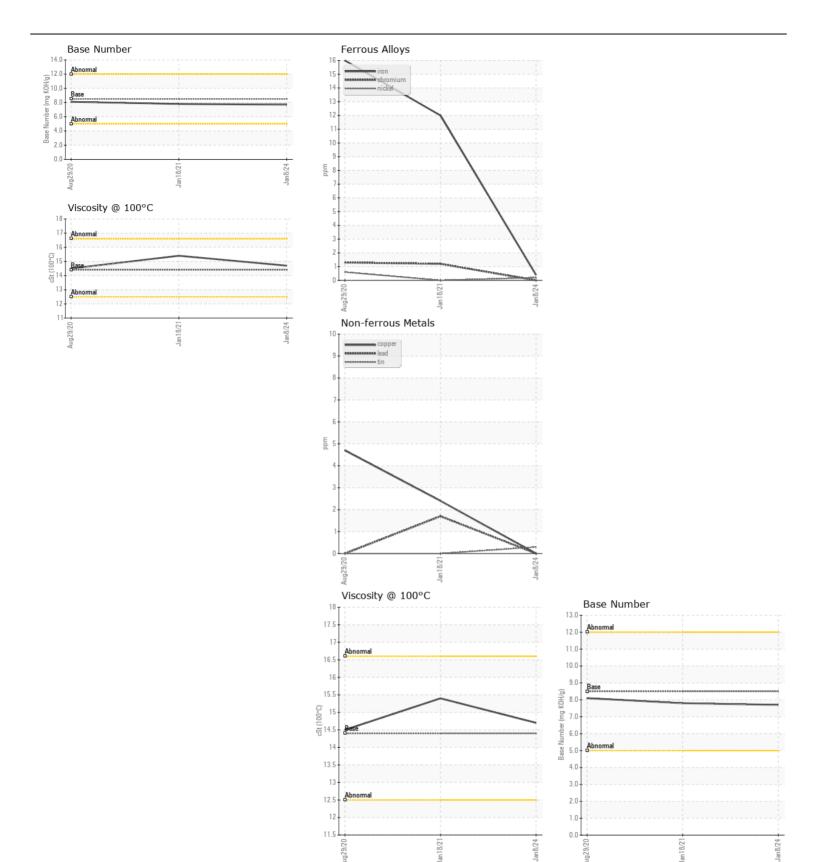
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

CR-6625

Component Diesel Engine

DIESEL ENGINE OIL SAE 5W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0873406	WC0534134	WC0427899
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.	Sample Date		Client Info		08 Jan 2024	18 Jan 2021	29 Aug 2020
	Machine Age	hrs	Client Info		10742	1998	7484
	Oil Age	hrs	Client Info		0	0	250
	Filter Age	hrs	Client Info		0	0	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<1	12	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	1	1
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	2	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	3	12
	Lead	ppm	ASTM D5185m	>40	0	2	0
	Copper	ppm	ASTM D5185m	>330	0	2	5
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	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	8	9
	Potassium	ppm	ASTM D5185m	>20	2	9	14
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<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	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	8.2	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	22.5	22.6
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	5	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	206	154	127
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	<1	4	4
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		96	93	69
	Calcium	ppm	ASTM D5185m		1963	2352	2170
	Phosphorus	ppm	ASTM D5185m		1004	1018	937
	Zinc	ppm	ASTM D5185m		1160	1173	1094
	Sulfur	ppm	ASTM D5185m		3365	2958	2671
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	18.4	18.8
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	7.8	8.1
	Visc @ 100°C	cSt	ASTM D445		14.7	15.4	14.5







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0873406 : 06073643

Recieved : 10850320

: 30 Jan 2024 Diagnosed

: 30 Jan 2024 Diagnostician : Wes Davis

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) **BUCKNER HEAVY LIFT**

4732 NC 54 EAST GRAHAM, NC US 27253-9215

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