WEAR CONTAMINATION FLUID CONDITION

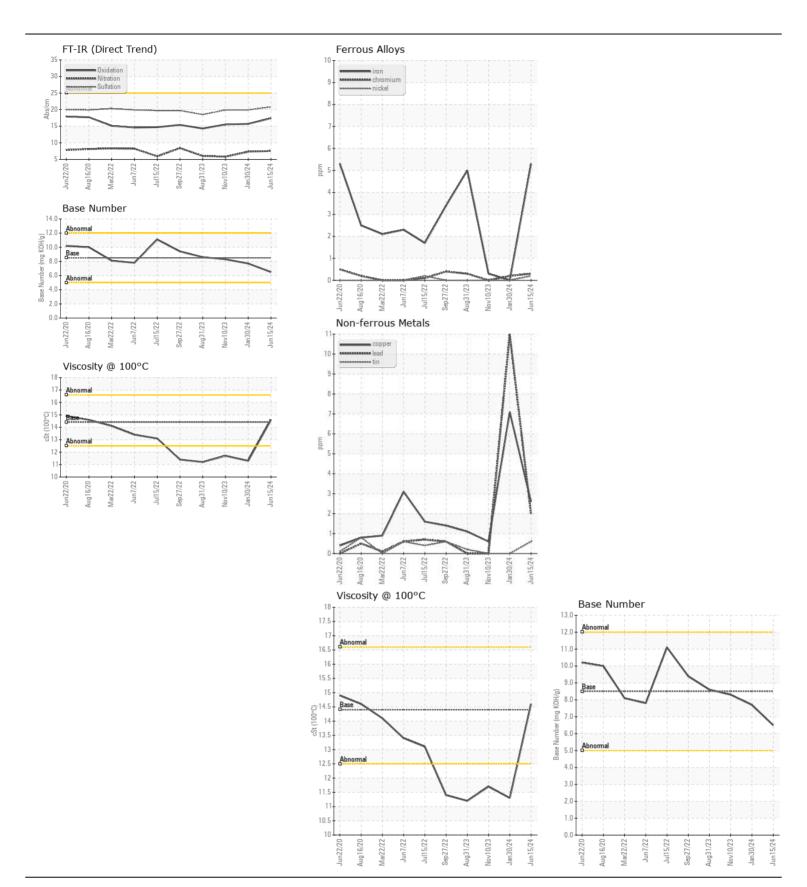
NORMAL NORMAL NORMAL

Machine Id

## **CR3314**

## Component Diesel Engine

DECOMMENDATION	T	11014	NA-AL-	1.597A1	(	118-4- 4	115-4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number		Client Info		WC0952115	WC0893115	WC0867415
	Sample Date Machine Age	hrs	Client Info		15 Jun 2024 10097	30 Jan 2024 9463	8421
	Oil Age		Client Info		500	0	0
	Filter Age	hrs hrs	Client Info		500	0	0
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Olichi illio		NORMAL	ATTENTION	_
WEAR	Iron	nnm	ASTM D5185m	. 100		0	<1
WEAN	Chromium	ppm	ASTM D5185m		5 <1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	>4	<1	0	0
	Silver	ppm	ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	1	1
	Lead	ppm	ASTM D5185m		2	11	0
	Copper	ppm	ASTM D5185m		3	7	<1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>\</b> 25	7	4	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		7	0	7
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.3	5.8
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	19.9	19.9
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>44	0	0	1
	Boron	ppm	ASTM D5185m	250	158	28	188
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	0
	Molybdenum	ppm	ASTM D5185m	100	7	49	2
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	168	739	112
	Calcium	ppm	ASTM D5185m	3000	2009	1195	2097
	Phosphorus	ppm	ASTM D5185m	1150	985	814	1032
	Zinc	ppm	ASTM D5185m		1165	1090	1238
	Sulfur	ppm	ASTM D5185m	4250	3469	2567	3662
	Oxidation	Abs/.1mm	*ASTM D7414		17.4	15.7	15.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	7.7	8.3
	Visc @ 100°C	cSt	ASTM D445			11.3	11.7







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0952115 Lab Number : 06215495

Unique Number: 11088359 Test Package : CONST ( Additional Tests: TBN )

Received **Tested** Diagnosed

: 21 Jun 2024 : 21 Jun 2024 - Wes Davis

: 20 Jun 2024

4732 NC 54 EAST GRAHAM, NC US 27253-9215

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**BUCKNER HEAVY LIFT** 

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)