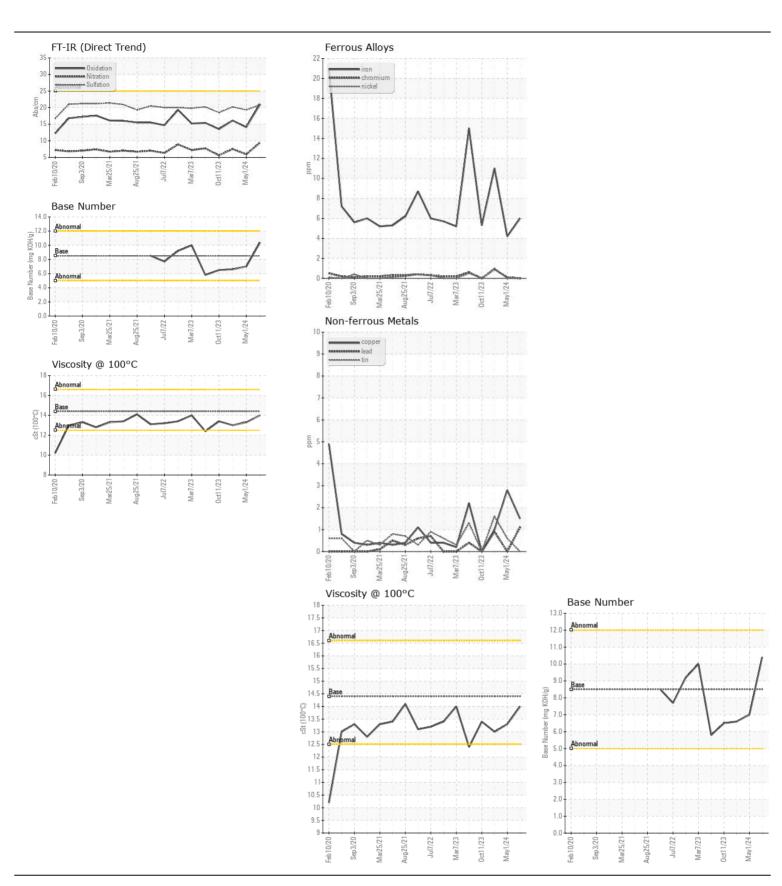
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

## 30215 Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 ( QTS)							
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	OOW	Client Info	LIIIIUAUII	WC0924457	WC0882740	WC0913635
	Sample Number		Client Info		28 Jun 2024	01 May 2024	22 Mar 2024
	Machine Age	hrs	Client Info		4710	4472	1552
	Oil Age	hrs	Client Info		750	1500	500
	Filter Age	hrs	Client Info		750	1500	500
	Oil Changed	1110	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	4	11
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m		3	2	3
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		2	3	1
	Tin	ppm	ASTM D5185m		0	<1	2
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	8	12
	Potassium	ppm	ASTM D5185m		2	0	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	5.9	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.3	20.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	1	0
The DN countries the disease when the countries the disease which the countries the countries the countries the	Boron	ppm	ASTM D5185m	250	113	419	358
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	1
	Molybdenum	ppm	ASTM D5185m	100	48	81	93
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m	450	925	382	377
	Calcium	ppm	ASTM D5185m		1419	1374	1340
	Phosphorus	ppm	ASTM D5185m		838	1017	922
	Zinc	ppm	ASTM D5185m		974	1184	1141
	Sulfur	ppm	ASTM D5185m		2999	3577	3009
	Oxidation	Abs/.1mm	*ASTM D7414		21.0	14.1	16.1
	Base Number (BN)	-			10.4	7.0	6.6
	Visc @ 100°C	cSt	ASTM D445	14.4	14.0	13.3	13.0







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0924457 Lab Number : 06227061

Received Unique Number: 11110554

: 03 Jul 2024 **Tested** Diagnosed

: 09 Jul 2024

: 09 Jul 2024 - Wes Davis

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com

**SULLIVAN EASTERN INC** 

2860 C SLATER RD

MORRISVILLE, NC

T: (919)484-8993 F: (919)484-2136

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) US 27560