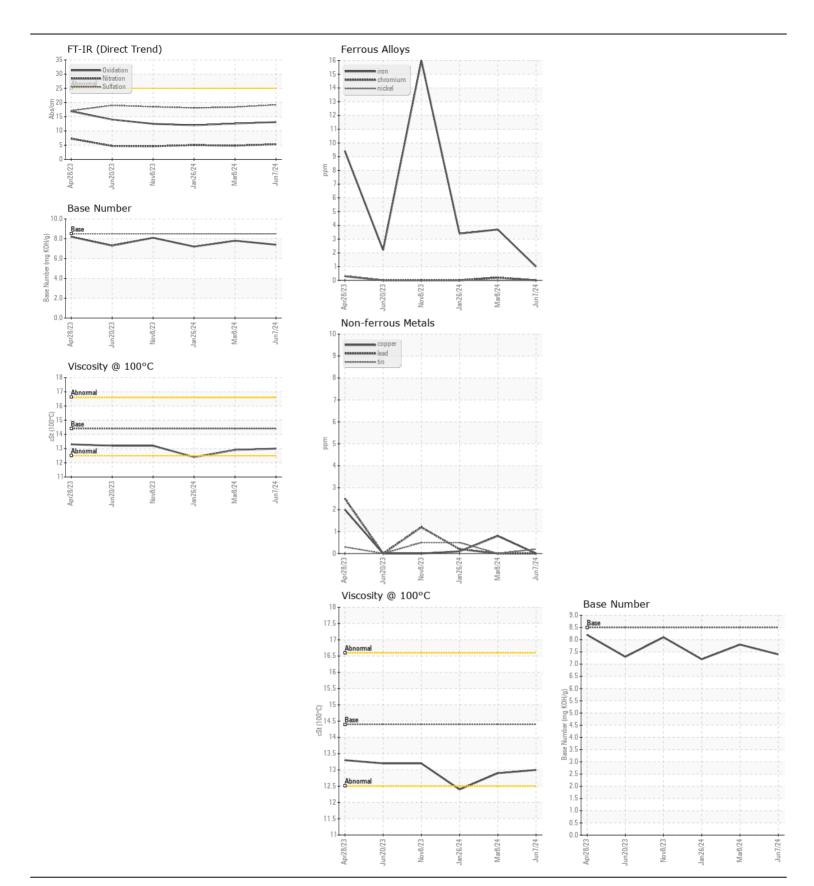
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

2602 Component Diesel Engine

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. Test Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info	Current WC0924377	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 Sample Number Client Info Machine Age hrs Client Info			
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 Machine Age hrs Client Info		WC0882857	WC0846769
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Machine Age hrs Client Info	07 Jun 2024		26 Jan 2024
brand, type, and viscosity of the oil on your next sample.	233	2472	1693
	233	250	750
Filter Age hrs Client Info	233	250	750
Oil Changed Client Info	Changed	Changed	Changed
Filter Changed Client Info	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL
WEAR Iron ppm ASTM D5185m >10	1	4	3
Chromium ppm ASTM D5185m >20	0	<1	0
Metal levels are typical for a new component breaking in. Nickel ppm ASTM D5185m >4	0	0	0
Titanium ppm ASTM D5185m	<1	<1	<1
Silver ppm ASTM D5185m >3	0	0	0
Aluminum ppm ASTM D5185m >20	2	2	1
Lead ppm ASTM D5185m >40	0	0	<1
Copper ppm ASTM D5185m >33	0	<1	<1
Tin ppm ASTM D5185m >15	<1	0	<1
Vanadium ppm ASTM D5185m	0	0	0
White Metal scalar *Visual NON	E NONE	NONE	NONE
Yellow Metal scalar *Visual NO1	E NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >25	7	7	8
Potassium ppm ASTM D5185m >20	4	2	5
There is no indication of any contamination in the oil. Fuel WC Method >5	<1.0	<1.0	0.7
Water WC Method >0.2	NEG	NEG	NEG
Glycol WC Method	NEG	NEG	NEG
Soot %	0.1	0.1	0
Nitration Abs/cm *ASTM D7624 >20	5.3	4.8	5.0
Sulfation Abs/.1mm *ASTM D7415 >30	19.2	18.4	18.1
Silt scalar *Visual NO!	E NONE	NONE	NONE
Debris scalar *Visual NON	E NONE	NONE	NONE
Sand/Dirt scalar *Visual NON		NONE	NONE
Appearance scalar *Visual NOR			NORML
Odor scalar *Visual NOR			NORML
Emulsified Water scalar *Visual >0.2	NEG	NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m	3	3	6
Boron ppm ASTM D5185m 250	372	414	384
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	78	82	87
Manganese ppm ASTM D5185m	<1	<1	0
Magnesium ppm ASTM D5185m 450	378	399	390
Calcium ppm ASTM D5185m 300		1324	1247
Phosphorus ppm ASTM D5185m 115		989	965
Zinc ppm ASTM D5185m 1350		1169	1113
		3415	3140
Sulfur ppm ASTM D5185m 425	13.1	12.6	12.0
Sulfur ppm ASTM D5185m 4250 Oxidation Abs/.1mm *ASTM D7414 >25			
Sulfur ppm ASTM D5185m 425	7.4	7.8 12.9	7.2 12.4







Laboratory

Sample No.

: WC0924377 Lab Number : 06214488 Unique Number : 11087352

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

Diagnosed

: 20 Jun 2024

: 19 Jun 2024

: 20 Jun 2024 - Wes Davis

MORRISVILLE, NC Contact: SCOTT SULLIVAN

ssullivan@sullivaneastern.com T: (919)484-8993

SULLIVAN EASTERN INC

2860 C SLATER RD

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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)

F: (919)484-2136

US 27560