WEAR CONTAMINATION FLUID CONDITION

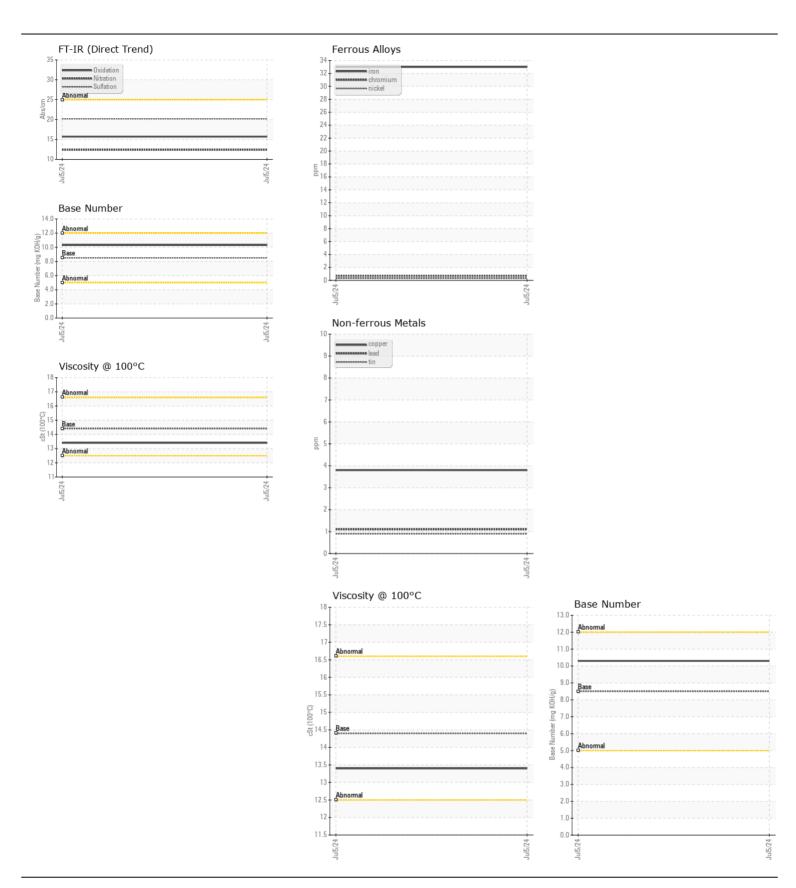
NORMAL NORMAL NORMAL

Machine Id

22665

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	LITTIO/ NOT	WC0950527		
	Sample Date		Client Info		05 Jul 2024		
	Machine Age	hrs	Client Info		11931		
	Oil Age	hrs	Client Info		750		
	Filter Age	hrs	Client Info		750		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	33		
WEAR	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1.1		
	Nitration	Abs/cm	*ASTM D7624	>20	12.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1		
The PN regult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	203		
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		
	Molybdenum	ppm	ASTM D5185m	100	5		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	379		
	Calcium	ppm	ASTM D5185m		3190		
	Phosphorus	ppm	ASTM D5185m	1150	1046		
	Zinc	ppm	ASTM D5185m		1161		
	Sulfur	ppm	ASTM D5185m		3356		
	Oxidation	Abs/.1mm	*ASTM D7414		15.7		
	Base Number (BN)		ASTM D2896		10.3		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4		







Certificate L2367

Laboratory Sample No.

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

: WC0950527 Lab Number : 06233047 Unique Number : 11116540

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.

Received **Tested**

: 11 Jul 2024 Diagnosed

: 11 Jul 2024 - Wes Davis

: 11 Jul 2024

MORRISVILLE, NC

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

SULLIVAN EASTERN INC

2860 C SLATER RD

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: SCOTT SULLIVAN - MSCDUR

F: (919)484-2136

US 27560