

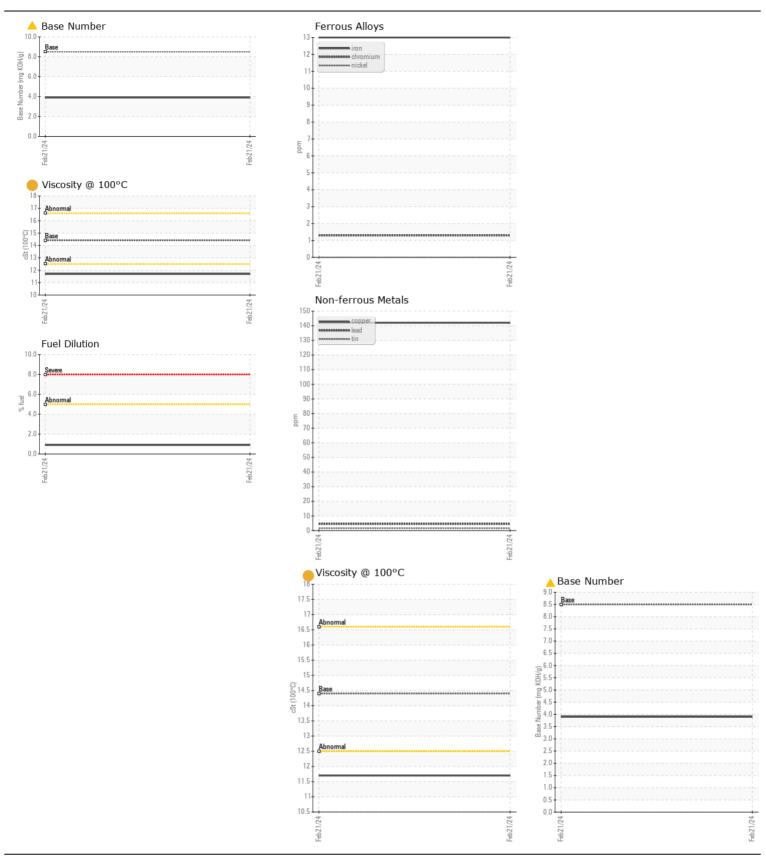
## Machine Id **31264** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL 10W40 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number	00101	Client Info	LITTICAUT	WC0905387		
	Sample Date		Client Info		21 Feb 2024		
	Machine Age	hrs	Client Info		689		
	Oil Age	hrs	Client Info		250		
	Filter Age	hrs	Client Info		250		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD	Iron		ASTM D5185m	×100	13		
WEAR	Chromium	ppm	ASTM D5185m		13		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>4	0 <1		
	Silver	ppm	ASTM D5185m	<u>2</u>	0		
	Aluminum	ppm					
	Lead	ppm	ASTM D5185m ASTM D5185m		3 4		
	Copper	ppm ppm	ASTM D5185m		4 142		
	Tin		ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	>15	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	visuai	NONL			
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	12		
	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel	%	ASTM D3524	>5	0.9		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	34.7		
	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		3		
	Boron		ASTM D5185m	250	140		
The oil viscosity is lower than normal. The BN level is low. Confirm oil type.	Barium	ppm	ASTM D5185m		16		
	Molybdenum	ppm	ASTM D5185m		62		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	730		
	Calcium	ppm	ASTM D5185m		1346		
	Phosphorus	ppm	ASTM D5185m		706		
	Zinc	ppm	ASTM D5185m		851		
	Sulfur	ppm	ASTM D5185m		2030		
	Oxidation	Abs/.1mm	*ASTM D7414		42.9		
	Base Number (BN)		ASTM D2896		<b>A</b> 3.9		
		cSt	ASTM D445	1//	. 11 7		

Visc @ 100°C cSt

ASTM D445 14.4

11.7



SULLIVAN EASTERN INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0905387 2860 C SLATER RD Received : 26 Feb 2024 Lab Number : 06099759 : 28 Feb 2024 MORRISVILLE, NC Tested Unique Number : 10897989 : 28 Feb 2024 - Jonathan Hester US 27560 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: SCOTT SULLIVAN Certificate L2367 ssullivan@sullivaneastern.com 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. T: (919)484-8993 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)484-2136