WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL NORMAL

Machine Id

255485

Component Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. 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		WC0861069	WC0861110	WC0840849
	Sample Date		Client Info		18 Dec 2023	24 Sep 2023	07 Aug 2023
	Machine Age	mls	Client Info		318215	308986	303403
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				MARGINAL	MARGINAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	5	8
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUATION							_
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	5
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		2	2	2
	Fuel	%	ASTM D3524	>5	▲ 3.5	▲ 2.9	▲ 5.0
	Water Glycol		WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	0.3 8.5	7.2	8.9
	Sulfation	Abs/.1mm	*ASTM D7024		19.0	18.5	18.9
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
EL LUD CONDITION	Cadiona		ACTM DE10E	150			
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		0 <1	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm					
oil. The condition of the oil is suitable for further service.		ppm	ASTM D5185m ASTM D5185m	100	0 62	<1 60	1 58
	Molybdenum Manganese	ppm	ASTM D5185m	100	0	<1	0
	Magnesium	ppm	ASTM D5185m	450	1011	938	883
	Calcium	ppm	ASTM D5185m		1115	1046	987
	Phosphorus	ppm	ASTM D5185m		1049	970	949
	Zinc	ppm	ASTM D5185m		1256	1170	1129
	Sulfur	ppm	ASTM D5185m		3455	3448	2837
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	14.7	15.5
	Base Number (BN)		ASTM D2896		9.1	9.7	8.5
	Vice @ 100°C	0C+	ASTM DAAS	1//	10.0	12.6	A 12.2

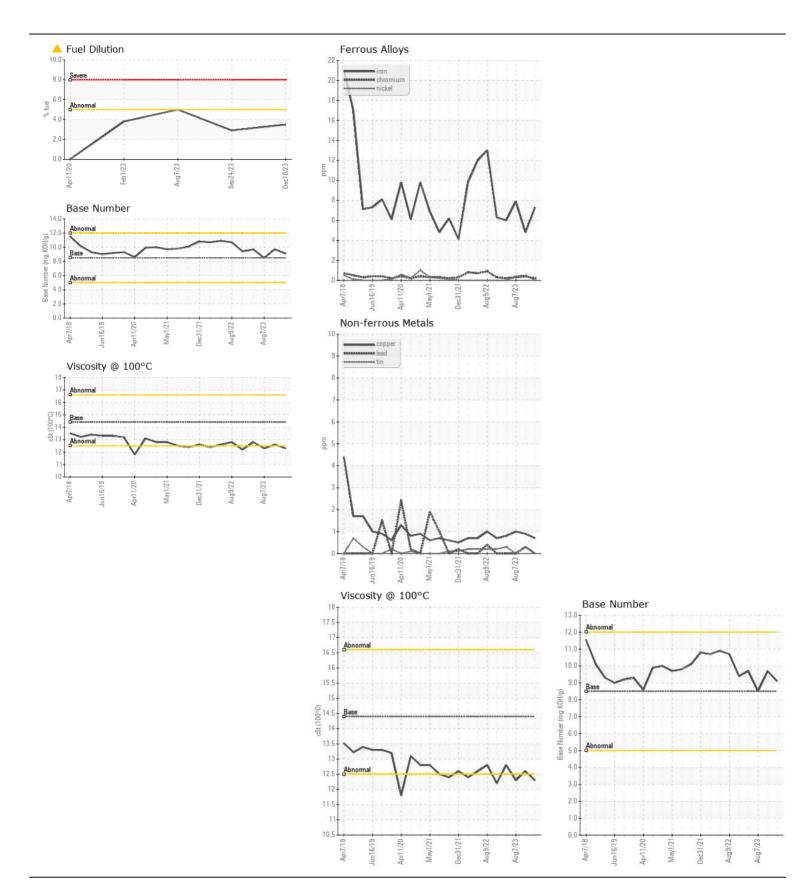
Visc @ 100°C cSt

ASTM D445 14.4

12.6

12.3

12.3







Certificate L2367

Report Id: SALWIN [WUSCAR] 06059939 (Generated: 01/16/2024 11:22:12) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: WC0861069 : 06059939 : 10831321

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024 Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

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