

WEAR CONTAMINATION FLUID CONDITION

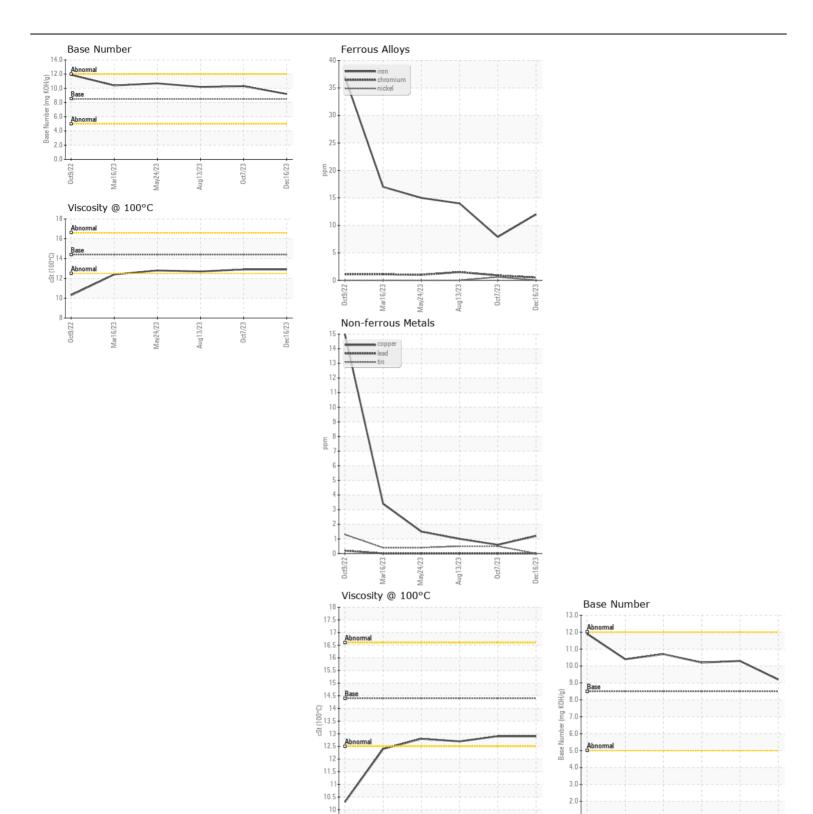
NORMAL NORMAL NORMAL

Machine Id

255493

Component Diesel Engine

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RESSIMILATION	Sample Number	OOM	Client Info	Little	WC0874170	WC0861100	WC0840876
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		16 Dec 2023	07 Oct 2023	13 Aug 2023
	Machine Age	mls	Client Info		62508	51520	41954
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	8	14
	Chromium	ppm	ASTM D5185m		<1	<1	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		9	13	25
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	<1	1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	3	4
OSITIANINATION	Potassium	ppm	ASTM D5185m		22	30	53
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.2	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.1	18.8
	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	0	2	1
	Boron	ppm	ASTM D5185m	250	<1	2	0
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	66	57	63
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1082	928	1025
	Calcium	ppm	ASTM D5185m		1193	1020	1076
	Phosphorus	ppm	ASTM D5185m		1126	1106	1066
	Zinc	ppm	ASTM D5185m		1335	1223	1302
	Sulfur	ppm	ASTM D5185m		3765	3302	3368
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	14.8	14.6
	Base Number (BN)				9.2	10.3	10.2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	12.7







Certificate L2367

Report Id: SALWIN [WUSCAR] 06059947 (Generated: 01/16/2024 11:23:04) Rev: 1

Laboratory Sample No. Lab Number

: WC0874170 : 06059947 Unique Number : 10831329 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024

0ct7/23

0.0

Mar16/23

Mav24/23

Dec16/23 -

: 16 Jan 2024 Diagnosed : Wes Davis Diagnostician

Aug13/23

To discuss this sample report, contact Customer Service at 1-800-237-1369.

9.5

Mar16/23

* - 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)

SALEM NATIONALEASE CORPORATION

Aug13/23

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US 27105

Dec16/23

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