

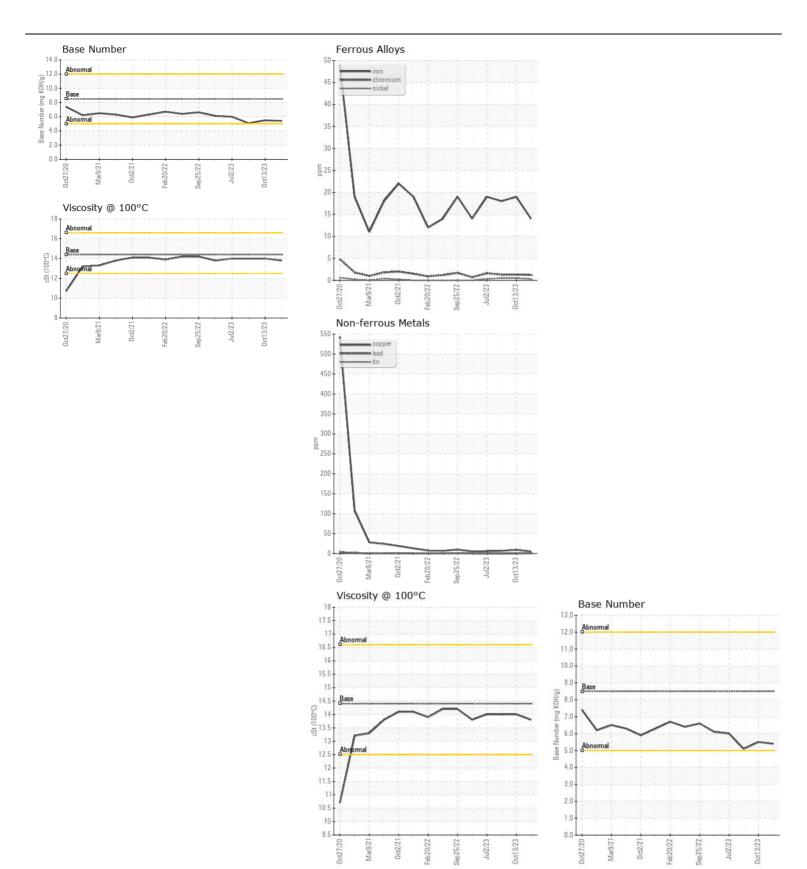
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **2-259**

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
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		Client Info	Ellillo 7 toll	WC0834202	-	WC0847593
	Sample Date		Client Info		31 Dec 2023	13 Oct 2023	11 Oct 2023
	Machine Age	hrs	Client Info		11011	10234	10196
	Oil Age	hrs	Client Info		777	824	786
	Filter Age	hrs	Client Info		777	824	786
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	lvon		ACTM DE10Em	. 100	4.4	10	10
WEAR	Iron	ppm	ASTM D5185m		14 1	19	18
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	>4	<1 <1	<1	<1
	Silver	ppm	ASTM D5185m	. 3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	8	7
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		5	9	7
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	10	8
	Fuel		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		0.4	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.5	10.0
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		23.9 NONE	25.1 NONE	24.1 NONE
	Debris	scalar 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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	2	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		26	21	22
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m	100	7	10	10
	Manganese	ppm	ASTM D5185m	450	<1	<1	1
	Magnesium	ppm	ASTM D5185m		842	764	716
	Calcium	ppm	ASTM D5185m	3000	1491	1393	1395
	Phosphorus	ppm	ASTM D5185m		828	811	702
	Zinc Sulfur	ppm	ASTM D5185m		970	893 3593	805 2601
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		3189 19.8	21.4	20.0
	Base Number (BN)				5.4	5.5	5.1
	Visc @ 100°C	cSt	ASTM D2090		13.8	14.0	14.0
	¥100 @ 100 O	001	, (O I W D440	17.7	10.0	17.0	17.0







Laboratory Sample No. Lab Number Unique Number

: WC0834202 : 06054689 : 10820638 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 Jan 2024 Recieved : 09 Jan 2024 Diagnosed : Wes Davis Diagnostician

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)

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