

## WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

Con Machin 550 Compo Dies

## Contracting Machine Id 5505 5505 Component Diesel Engine

## MOBIL DELVAC 1300 SUPER15W40 (9 GAL)

					$\sim$		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0861603	WC0784556	WC0559761
Oil and filter change at the time of sampling has been noted. No	Sample Date		Client Info		08 Jan 2024	03 Feb 2023	09 Mar 2021
corrective action is recommended at this time. Resample at the next	Machine Age	hrs	Client Info		5191	4737	2857
service interval to monitor.	Oil Age	hrs	Client Info		451	512	641
	Filter Age	hrs	Client Info		451	512	641
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m		21	19	47
	Chromium	ppm	ASTM D5185m		<1	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		7	8	22
	Lead	ppm	ASTM D5185m	>40	0	<1	<1
	Copper	ppm	ASTM D5185m		1	2	6
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	0
CONTAININATION	Potassium	ppm	ASTM D5185m		10	15	3
There is a moderate amount of particulates present in the oil.	Fuel	ppm	WC Method		<1.0	0.8	<1.0
······································	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.6	9.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.1	21.4
	Particles >4µm		ASTM D7647		10962	11066	13905
	Particles >6µm		ASTM D7647	>5000	<b>5971</b>	▲ 6028	▲ 7575
	Particles >14µm		ASTM D7647	>640	<b>1016</b>	<b>1</b> 026	1289
	Particles >21µm		ASTM D7647	>160	<b>342</b>	▲ 346	<b>4</b> 34
	Particles >38µm		ASTM D7647	>40	<b>5</b> 3	▲ 53	<b>6</b> 7
	Particles >71µm		ASTM D7647		5	5	7
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>a</b> 21/20/17	<b>1</b> /20/17	<b>1</b> /20/17
	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
	Sodium	nnm	ASTM D5185m		62	106	35
FLUID CONDITION	Boron	ppm ppm	ASTM D5185m	0	41	▲ 106 41	35 35
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		56	68	17
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	519	504	708
	Calcium	ppm	ASTM D5185m	0	1585	1651	1473
	Phosphorus	ppm	ASTM D5185m		778	734	724
	Zinc	ppm	ASTM D5185m		915	891	848
	Sulfur	nnm	ASTM D5185m		2470	3023	2798

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 9.4

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14

3023

19.2

9.6

12.2

2470

19.7

9.4

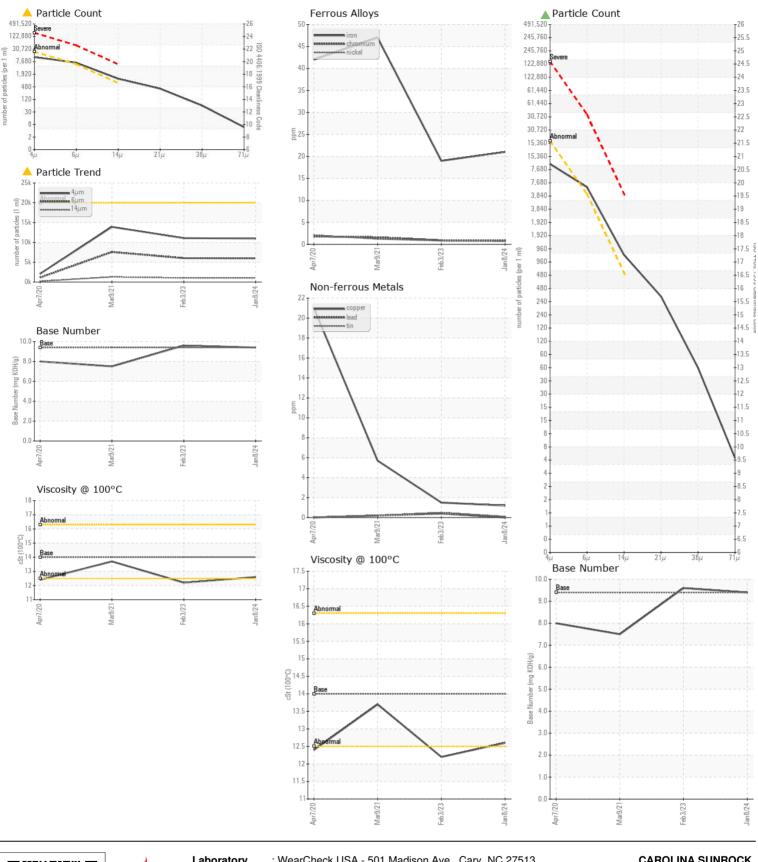
12.6

2798

16.4

7.5

13.7



**CAROLINA SUNROCK** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0861603 PO BOX 25 Sample No. Recieved : 10 Jan 2024 : 06056564 BUTNER, NC Lab Number Diagnosed : 11 Jan 2024 : 10822513 US 27509 **Unique Number** Diagnostician : Don Baldridge Test Package : CONST (Additional Tests: PrtCount, TBN) Contact: Leigh Dennis Certificate L2367 rdennis@thesunrockgroup.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)575-4505 F: (919)575-0162 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)