



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6463 6463**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0947764</b>	WC0939380	WC0902754
Sample Date		Client Info		<b>18 Jun 2024</b>	06 May 2024	11 Mar 2024
Machine Age	hrs	Client Info		<b>2535</b>	2239	1648
Oil Age	hrs	Client Info		<b>297</b>	914	323
Filter Age	hrs	Client Info		<b>297</b>	914	323
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	17	24
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	9	13
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>9</b>	31	106
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

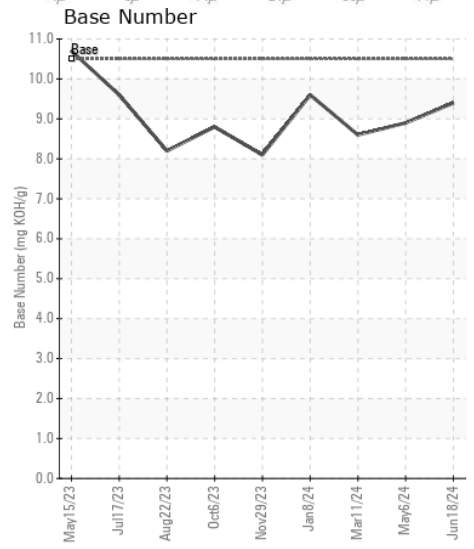
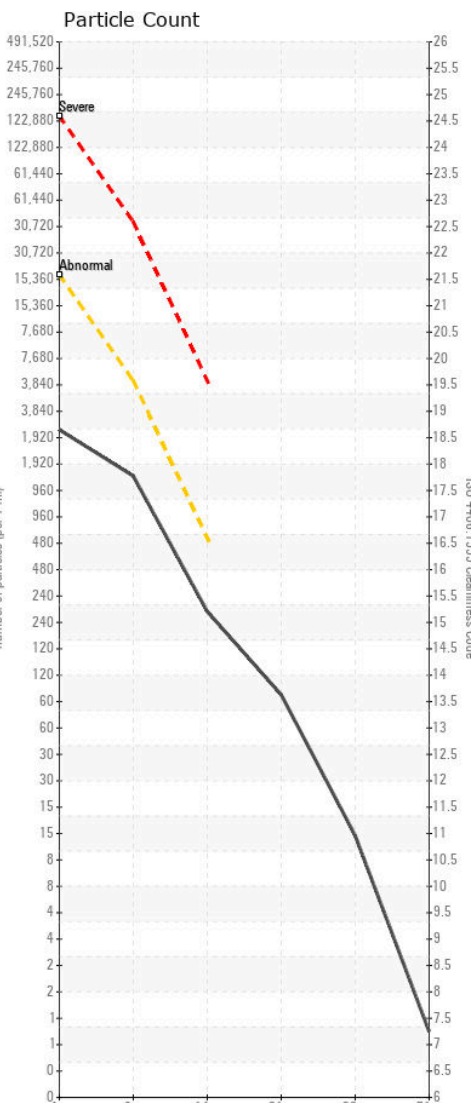
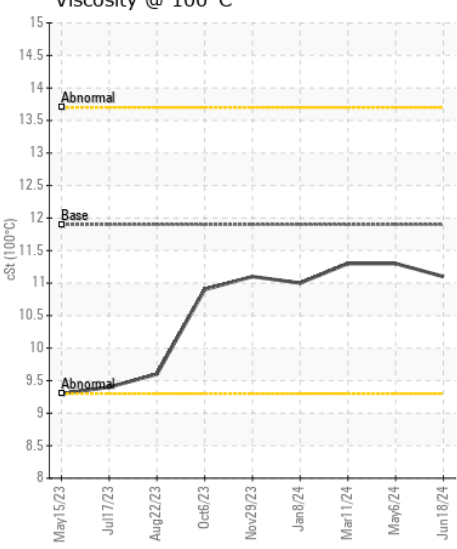
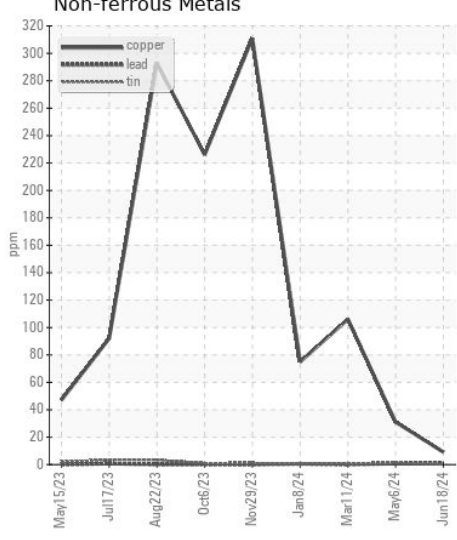
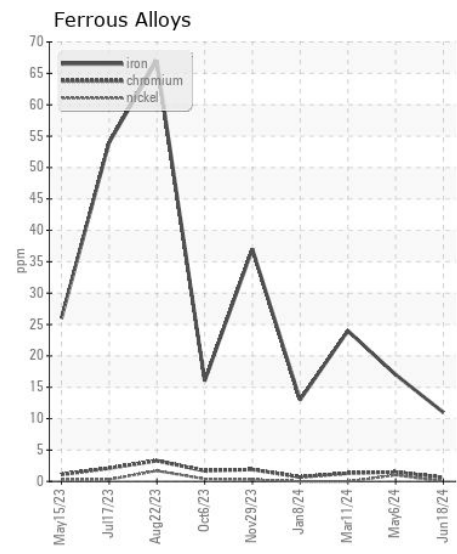
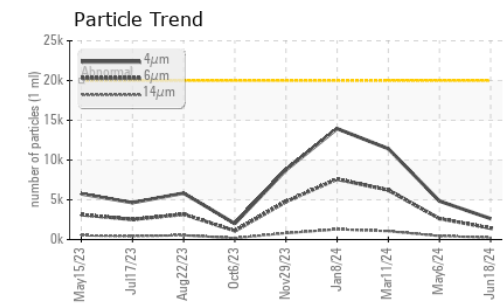
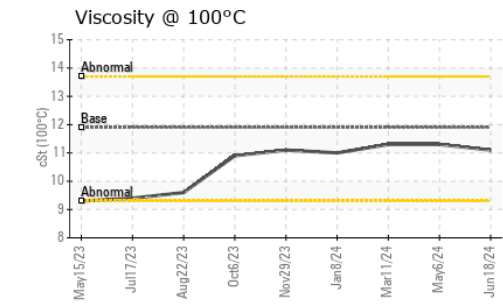
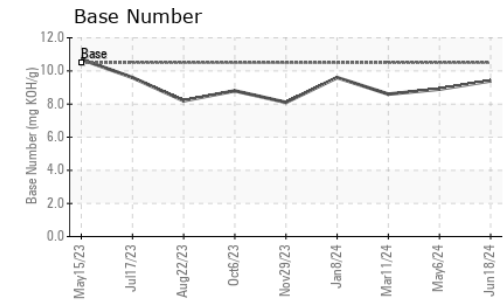
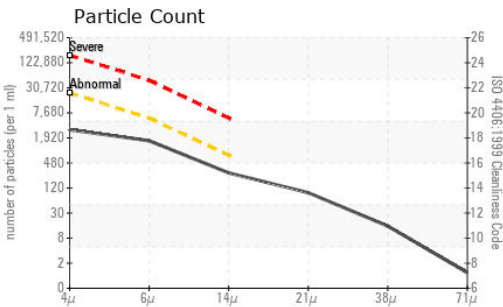
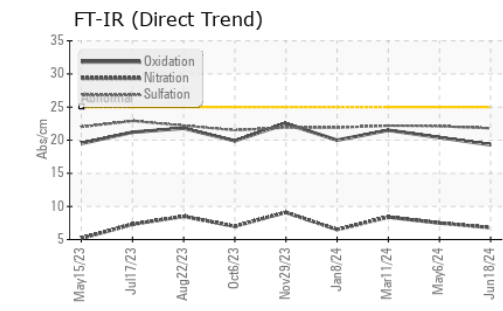
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	21	31
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	7.5	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	22.1	22.2
Particles >4µm		ASTM D7647	>20000	<b>2636</b>	4837	11431
Particles >6µm		ASTM D7647	>5000	<b>1436</b>	2635	6227
Particles >14µm		ASTM D7647	>640	<b>244</b>	448	1060
Particles >21µm		ASTM D7647	>160	<b>82</b>	151	357
Particles >38µm		ASTM D7647	>40	<b>13</b>	23	55
Particles >71µm		ASTM D7647	>10	<b>1</b>	2	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/18/15</b>	19/19/16	21/20/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	<1
Boron	ppm	ASTM D5185m		<b>39</b>	42	41
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	47	51
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>537</b>	494	485
Calcium	ppm	ASTM D5185m		<b>1878</b>	1636	1629
Phosphorus	ppm	ASTM D5185m		<b>822</b>	749	678
Zinc	ppm	ASTM D5185m		<b>1026</b>	917	884
Sulfur	ppm	ASTM D5185m		<b>3032</b>	2570	2179
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	20.4	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.4</b>	8.9	8.6
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.1</b>	11.3	11.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947764 **Received** : 20 Jun 2024  
**Lab Number** : 06215688 **Tested** : 21 Jun 2024  
**Unique Number** : 11088552 **Diagnosed** : 22 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount, TBN )  
 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)

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509  
 Contact: Leigh Dennis  
 rdennis@thesunrockgroup.com  
 T: (919)575-4505  
 F: (919)575-0162