



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

## Mobile Fleet

Machine Id

### 6450 6450

Component

### Diesel Engine

Fluid

### MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0956064</b>	WC0939388	WC0902916
Sample Date		Client Info		<b>09 Jul 2024</b>	08 May 2024	07 Mar 2024
Machine Age	hrs	Client Info		<b>9259</b>	8890	8555
Oil Age	hrs	Client Info		<b>369</b>	642	307
Filter Age	hrs	Client Info		<b>369</b>	642	307
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>7</b>	9	7
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	5	4
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>6</b>	10	8
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

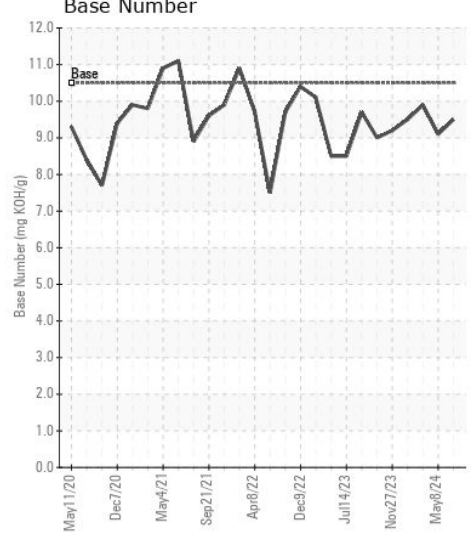
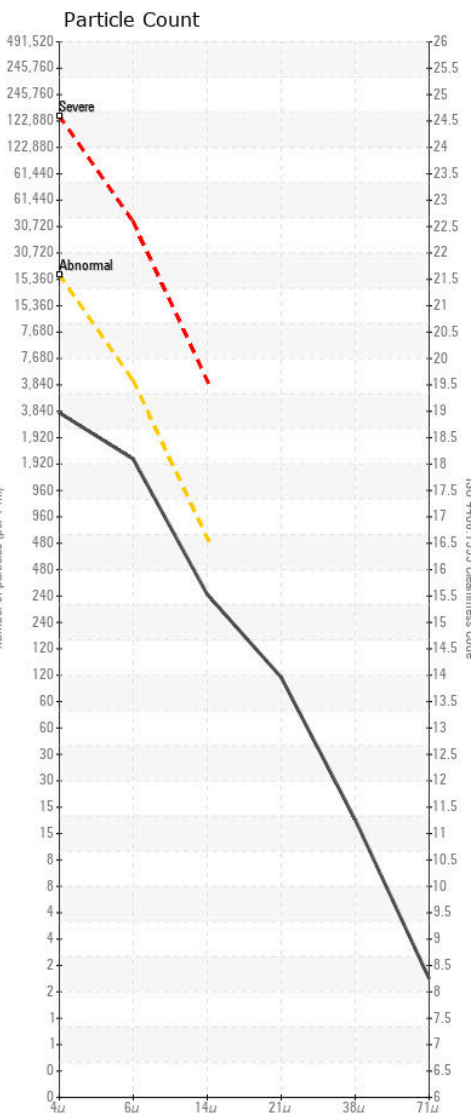
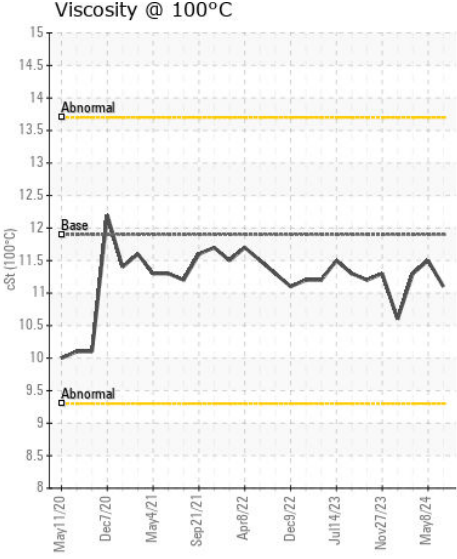
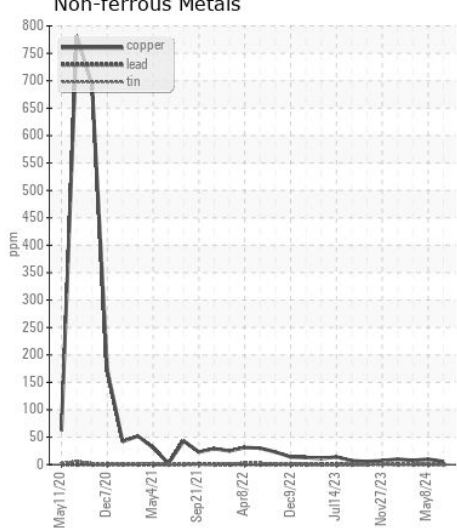
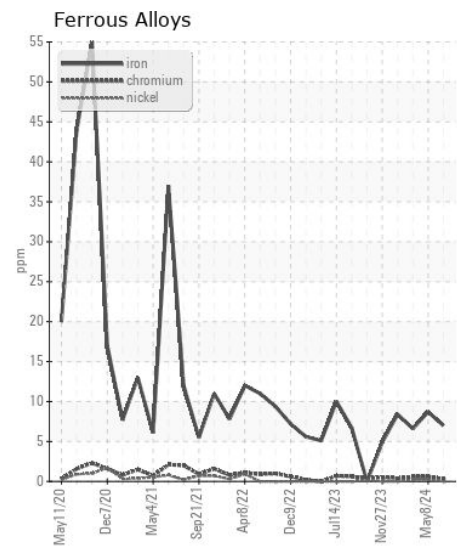
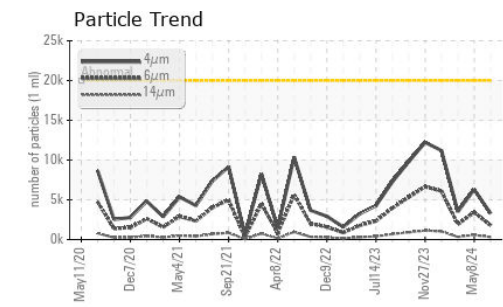
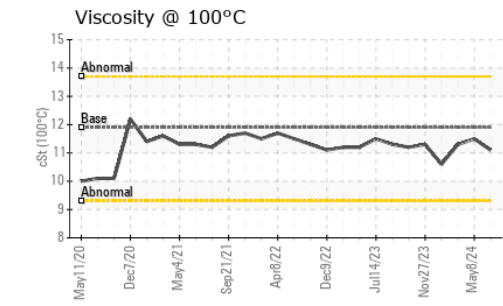
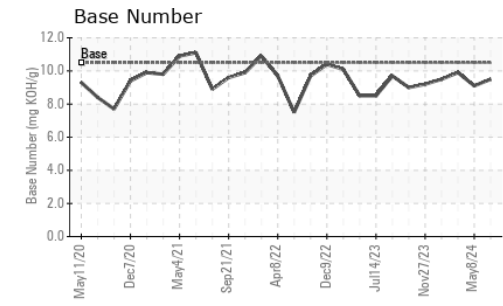
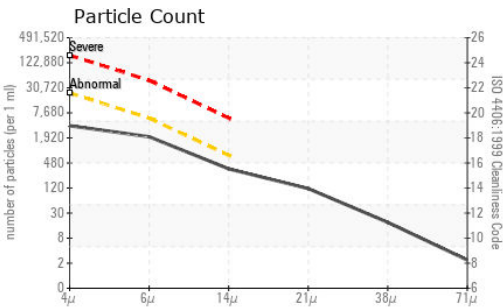
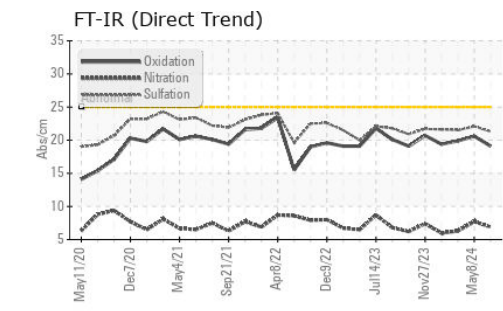
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	6	4
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>0.3</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.9</b>	7.7	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	22.1	21.5
Particles >4µm		ASTM D7647	>20000	<b>3289</b>	6290	3515
Particles >6µm		ASTM D7647	>5000	<b>1791</b>	3426	1915
Particles >14µm		ASTM D7647	>640	<b>305</b>	583	326
Particles >21µm		ASTM D7647	>160	<b>103</b>	196	110
Particles >38µm		ASTM D7647	>40	<b>16</b>	30	17
Particles >71µm		ASTM D7647	>10	<b>2</b>	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/18/15</b>	20/19/16	19/18/16
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	0	1
Boron	ppm	ASTM D5185m		<b>26</b>	50	58
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>48</b>	52	48
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>514</b>	510	528
Calcium	ppm	ASTM D5185m		<b>1756</b>	1712	1698
Phosphorus	ppm	ASTM D5185m		<b>769</b>	782	844
Zinc	ppm	ASTM D5185m		<b>881</b>	922	953
Sulfur	ppm	ASTM D5185m		<b>2738</b>	2602	2844
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.1</b>	20.6	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.5</b>	9.1	9.9
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.1</b>	11.5	11.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0956064  
**Lab Number** : 06233143  
**Unique Number** : 11116636  
**Test Package** : CONST ( Additional Tests: PrtCount, TBN )  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Don Baldridge

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