



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6468 6468
 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		WC0947763	WC0918972	WC0902803
Sample Date		Client Info		18 Jun 2024	02 May 2024	15 Feb 2024
Machine Age	hrs	Client Info		2185	1909	1460
Oil Age	hrs	Client Info		276	449	472
Filter Age	hrs	Client Info		276	449	472
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	12	16	20
Chromium	ppm	ASTM D5185m	>5	<1	2	1
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>35	12	9	12
Lead	ppm	ASTM D5185m	>10	<1	2	2
Copper	ppm	ASTM D5185m	>180	11	40	127
Tin	ppm	ASTM D5185m	>8	0	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

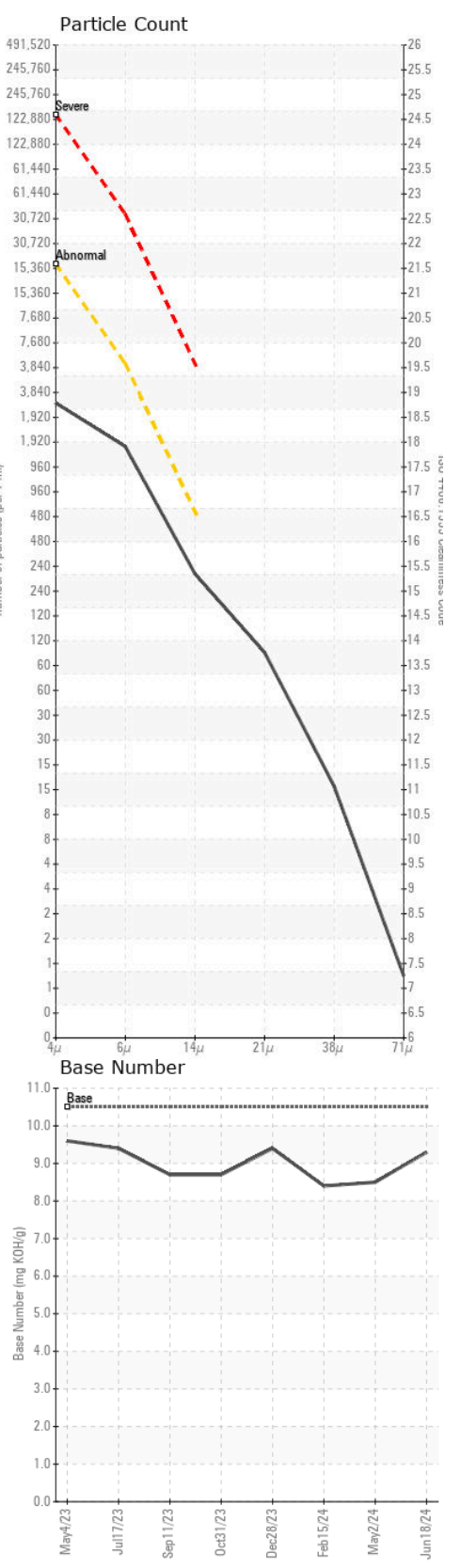
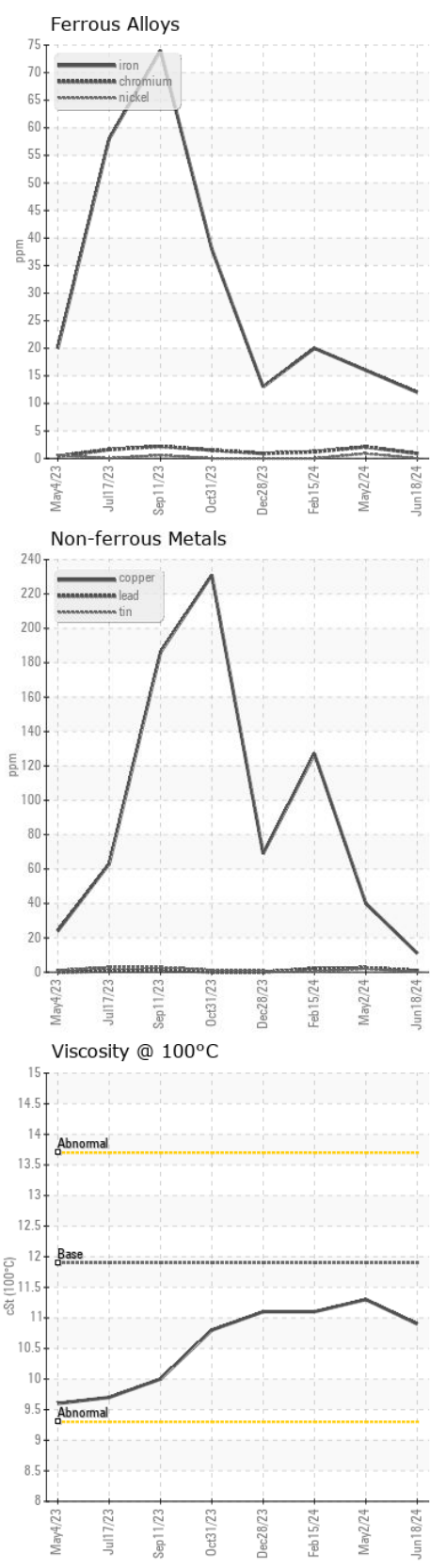
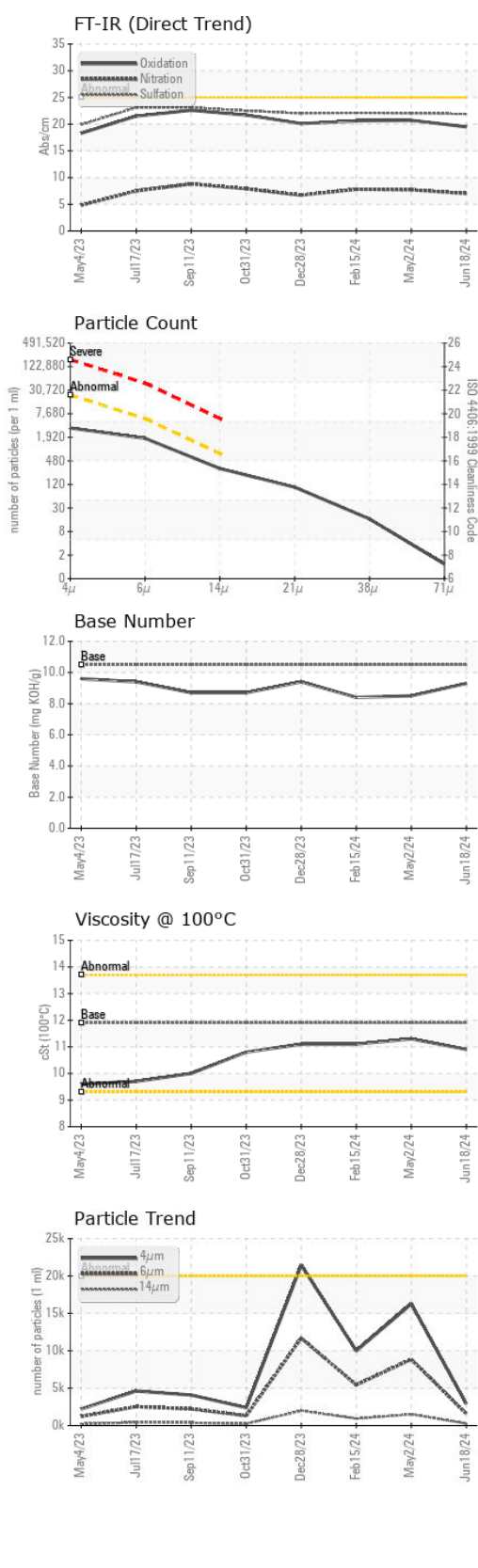
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	5	5	6
Potassium	ppm	ASTM D5185m	>20	26	17	27
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.0	22.1
Particles >4µm		ASTM D7647	>20000	2897	16260	9978
Particles >6µm		ASTM D7647	>5000	1578	▲ 8857	● 5436
Particles >14µm		ASTM D7647	>640	269	▲ 1507	● 925
Particles >21µm		ASTM D7647	>160	90	▲ 508	● 312
Particles >38µm		ASTM D7647	>40	14	▲ 78	● 48
Particles >71µm		ASTM D7647	>10	1	8	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	▲ 21/20/18	● 20/20/17
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

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		3	3	2
Boron	ppm	ASTM D5185m		40	38	45
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	43	46
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		529	539	496
Calcium	ppm	ASTM D5185m		1865	1814	1635
Phosphorus	ppm	ASTM D5185m		808	813	718
Zinc	ppm	ASTM D5185m		1015	967	853
Sulfur	ppm	ASTM D5185m		2956	2808	2058
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	20.7	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.3	8.5	8.4
Visc @ 100°C	cSt	ASTM D445	11.9	10.9	11.3	11.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947763 **Received** : 20 Jun 2024
Lab Number : 06215690 **Tested** : 21 Jun 2024
Unique Number : 11088554 **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