



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6458 6458
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937940	WC0939339	WC0919023
Sample Date		Client Info		17 Jun 2024	07 May 2024	29 Mar 2024
Machine Age	hrs	Client Info		3250	2987	2800
Oil Age	hrs	Client Info		449	186	315
Filter Age	hrs	Client Info		449	186	315
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	6	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	7	5	9
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	14	14	43
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

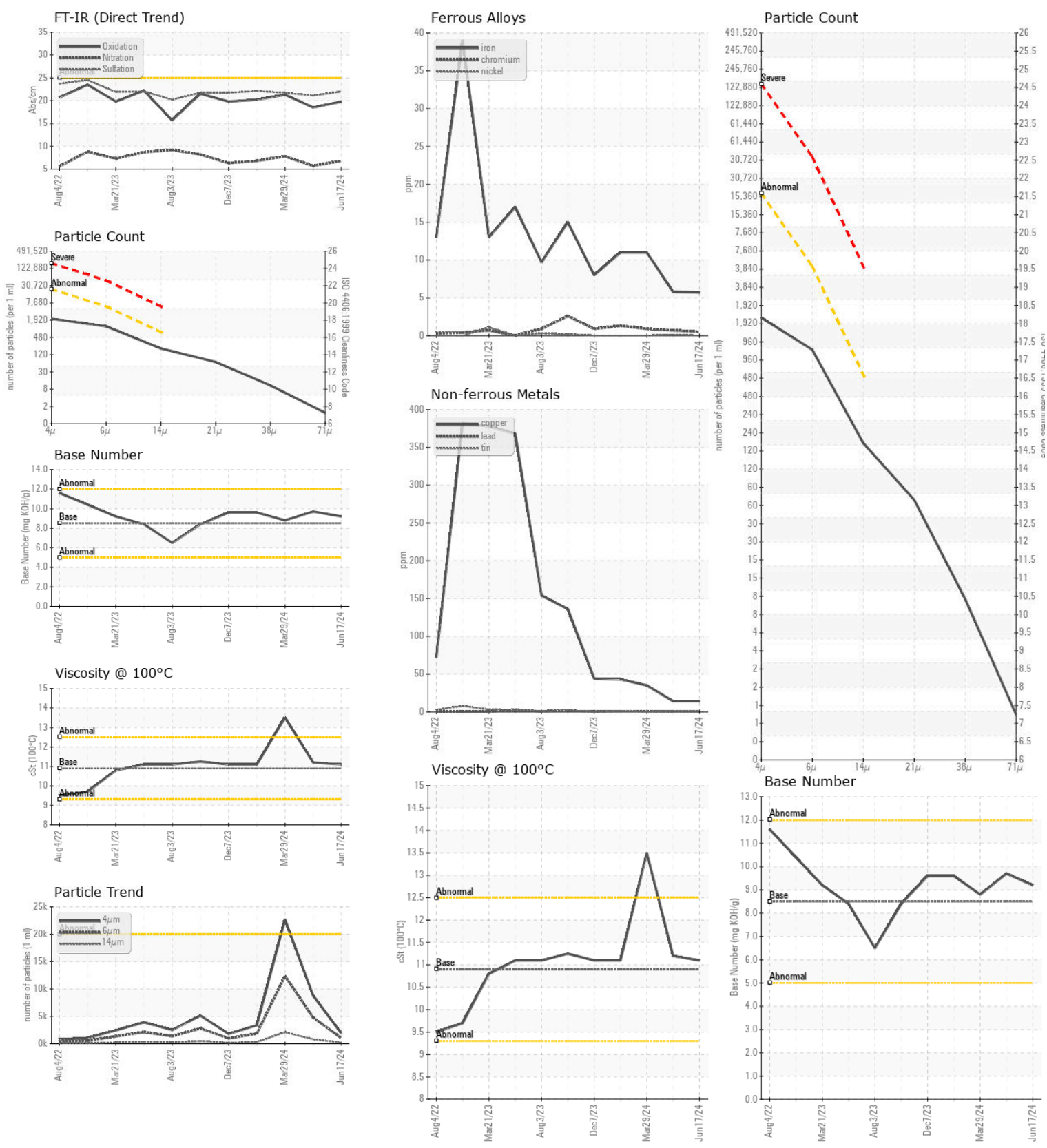
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	5	7	5
Potassium	ppm	ASTM D5185m	>20	13	10	19
Fuel		WC Method	>5	<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	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.1	21.7
Particles >4µm		ASTM D7647	>20000	1879	8769	3358
Particles >6µm		ASTM D7647	>5000	1024	4777	1829
Particles >14µm		ASTM D7647	>640	174	813	311
Particles >21µm		ASTM D7647	>160	59	274	105
Particles >38µm		ASTM D7647	>40	9	42	16
Particles >71µm		ASTM D7647	>10	1	4	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/15	20/19/17	19/18/15
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		2	0	2
Boron	ppm	ASTM D5185m	250	36	61	37
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	47	53	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	521	483	519
Calcium	ppm	ASTM D5185m	3000	1644	1627	1789
Phosphorus	ppm	ASTM D5185m	1150	777	727	706
Zinc	ppm	ASTM D5185m	1350	918	860	880
Sulfur	ppm	ASTM D5185m	4250	2821	2468	2621
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	18.5	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2	9.7	8.8
Visc @ 100°C	cSt	ASTM D445	10.9	11.1	11.2	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937940 **Received** : 19 Jun 2024
Lab Number : 06214509 **Tested** : 20 Jun 2024
Unique Number : 11087373 **Diagnosed** : 21 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)

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