



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

8109 8109

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		WC0919112	WC0918614	WC0885885
Sample Date		Client Info		24 Apr 2024	11 Mar 2024	24 Jan 2024
Machine Age	hrs	Client Info		12858	12588	12299
Oil Age	hrs	Client Info		270	565	276
Filter Age	hrs	Client Info		270	565	276
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	7	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	6	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

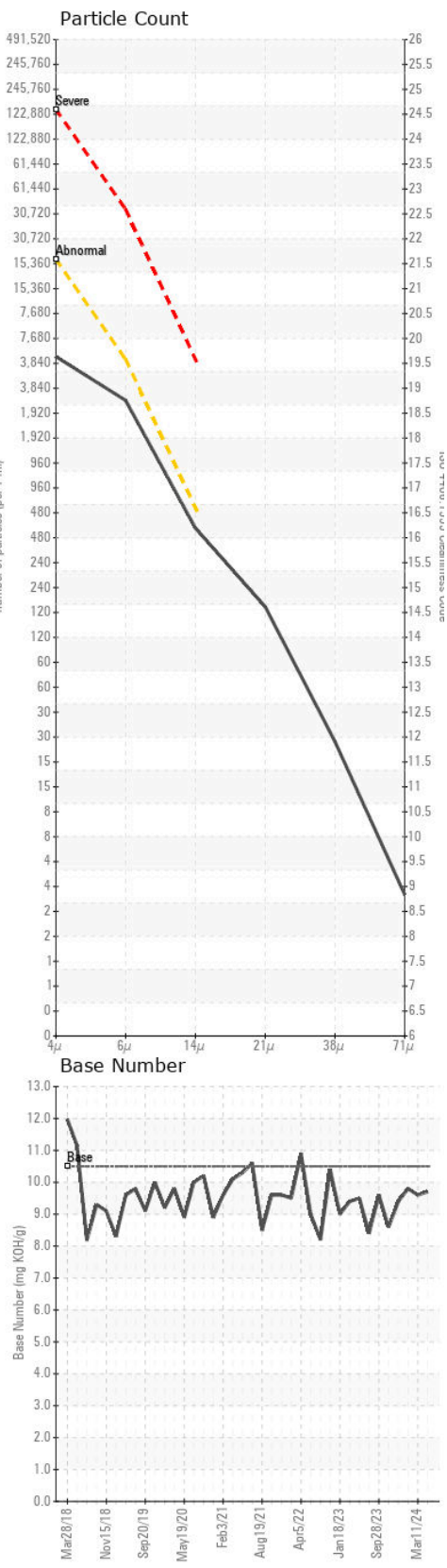
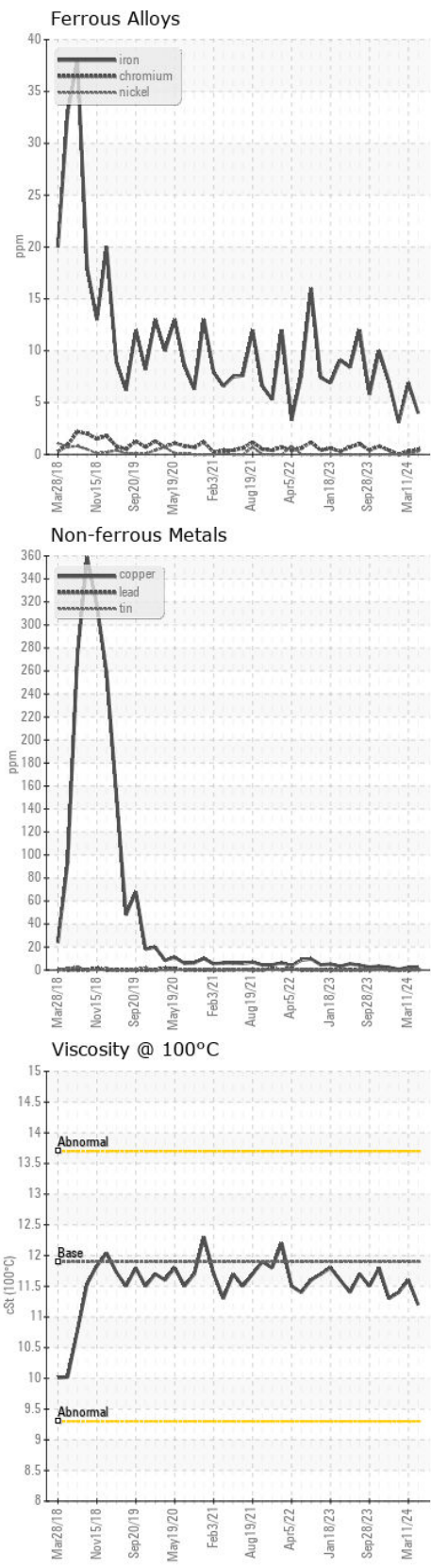
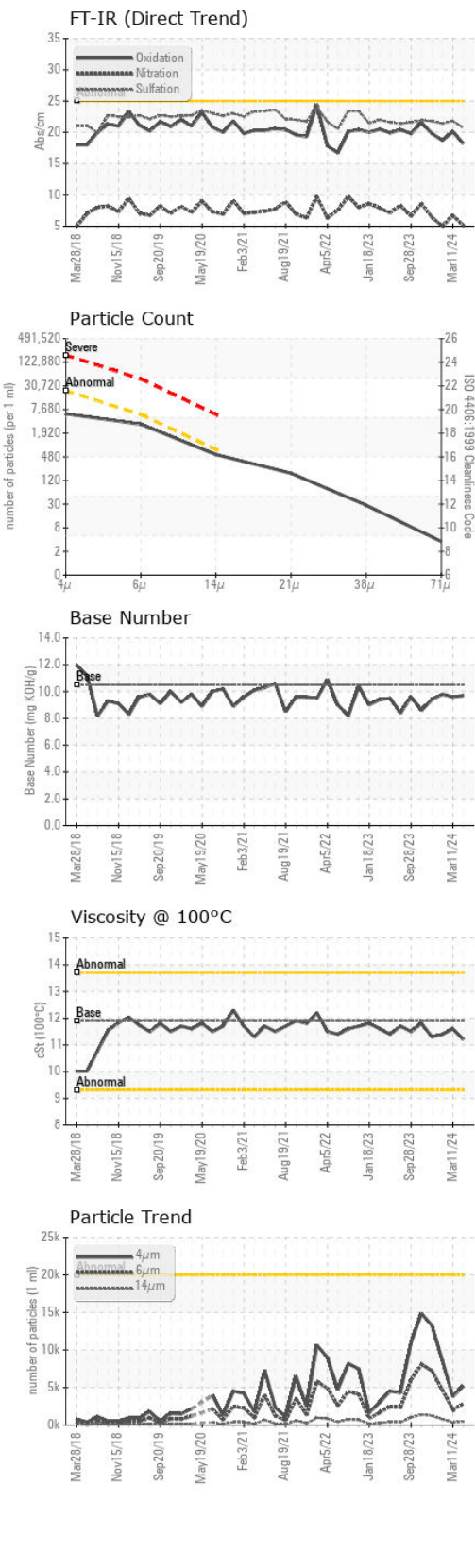
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	11	8
Potassium	ppm	ASTM D5185m	>20	2	2	<1
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	0.1	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.1	6.7	5.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	21.8	21.4
Particles >4µm		ASTM D7647	>20000	5194	3793	8578
Particles >6µm		ASTM D7647	>5000	2829	2066	4673
Particles >14µm		ASTM D7647	>640	482	352	795
Particles >21µm		ASTM D7647	>160	162	118	268
Particles >38µm		ASTM D7647	>40	25	18	41
Particles >71µm		ASTM D7647	>10	3	2	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	19/18/16	20/19/17
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		2	<1	2
Boron	ppm	ASTM D5185m		68	41	66
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		48	45	43
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		487	489	502
Calcium	ppm	ASTM D5185m		1580	1618	1665
Phosphorus	ppm	ASTM D5185m		723	716	734
Zinc	ppm	ASTM D5185m		872	907	890
Sulfur	ppm	ASTM D5185m		2636	2550	2515
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	20.1	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.7	9.6	9.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.6	11.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919112 **Received** : 26 Apr 2024
Lab Number : 06161333 **Tested** : 30 Apr 2024
Unique Number : 10996756 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
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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