



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

8019 8019

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		WC0939362	WC0918638	WC0861913
Sample Date		Client Info		20 May 2024	19 Mar 2024	03 Jan 2024
Machine Age	hrs	Client Info		17146	16768	16472
Oil Age	hrs	Client Info		388	292	310
Filter Age	hrs	Client Info		388	292	310
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	12	7	8
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	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	8	5	6
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	3	2
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

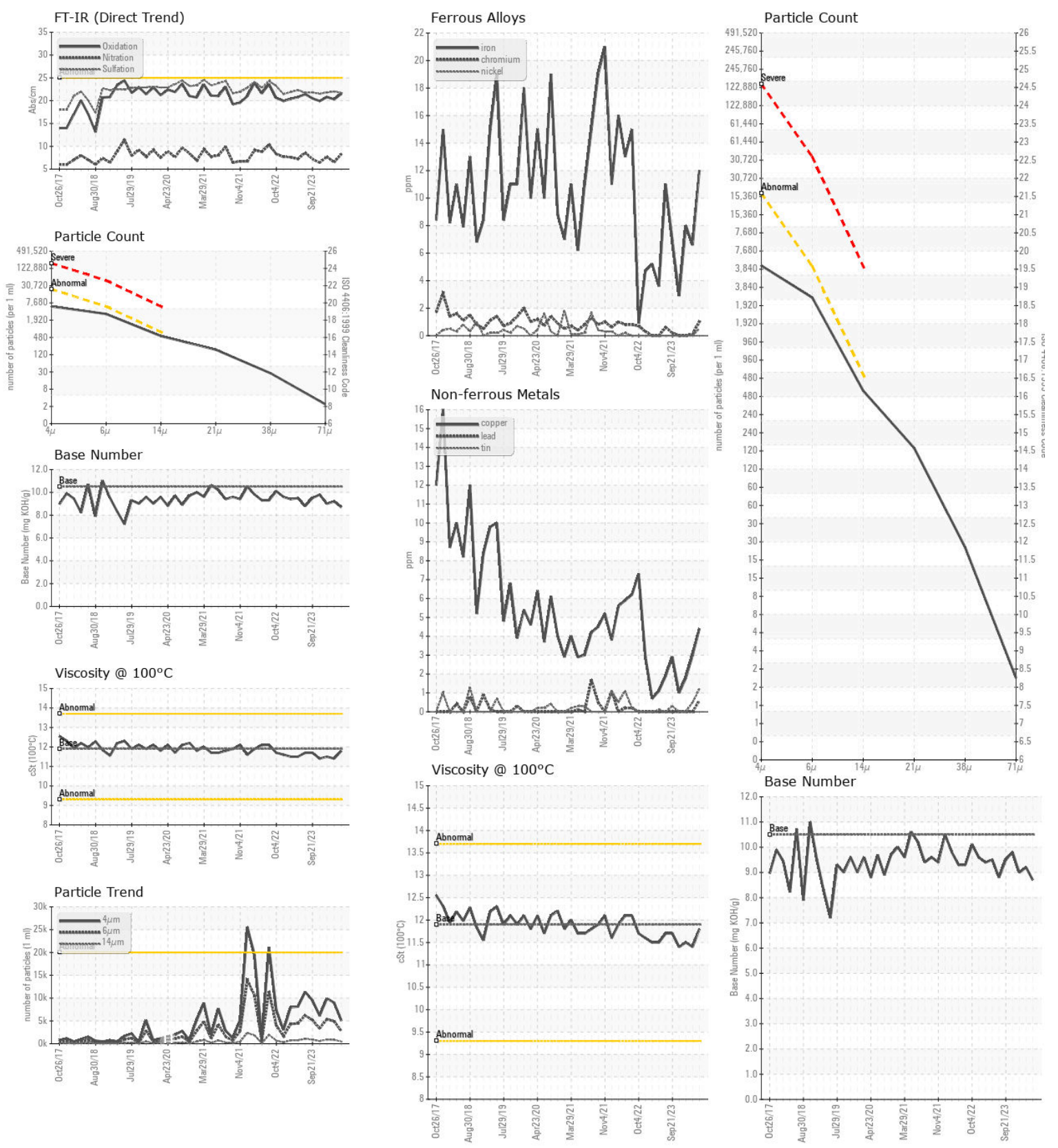
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	8	9
Potassium	ppm	ASTM D5185m	>20	2	0	<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	0.4	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.3	6.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.0	21.8
Particles >4µm		ASTM D7647	>20000	5063	8995	9891
Particles >6µm		ASTM D7647	>5000	2758	4900	5388
Particles >14µm		ASTM D7647	>640	469	834	917
Particles >21µm		ASTM D7647	>160	158	281	309
Particles >38µm		ASTM D7647	>40	24	43	48
Particles >71µm		ASTM D7647	>10	2	4	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	20/19/17	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		2	3	2
Boron	ppm	ASTM D5185m		45	50	40
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	45	49
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		527	513	522
Calcium	ppm	ASTM D5185m		1815	1680	1688
Phosphorus	ppm	ASTM D5185m		837	750	740
Zinc	ppm	ASTM D5185m		1007	894	946
Sulfur	ppm	ASTM D5185m		2885	2718	2537
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	20.3	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.7	9.2	9.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.8	11.4	11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939362
Lab Number : 06189092
Unique Number : 11045844
Test Package : CONST (Additional Tests: PrtCount, TBN)

Received : 23 May 2024
Tested : 24 May 2024
Diagnosed : 28 May 2024 - Don Baldrige

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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