



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

Mobile Fleet

Machine Id

6433 6433

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919114	WC0867048	WC0862034
Sample Date		Client Info		10 Apr 2024	09 Nov 2023	22 Sep 2023
Machine Age	hrs	Client Info		12713	12413	12123
Oil Age	hrs	Client Info		303	528	12123
Filter Age	hrs	Client Info		303	528	12123
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	19	9	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	7	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	30	5	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

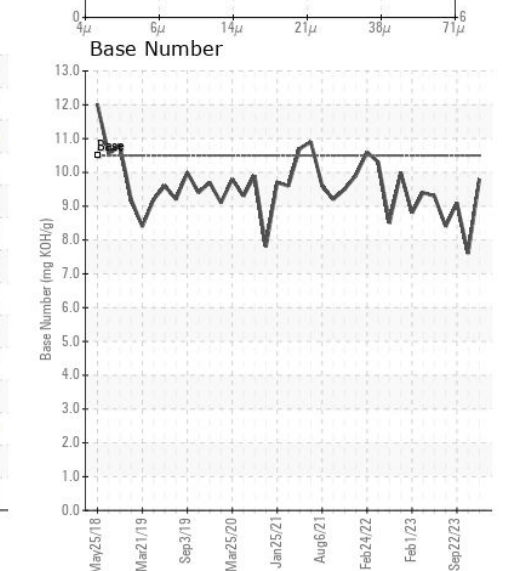
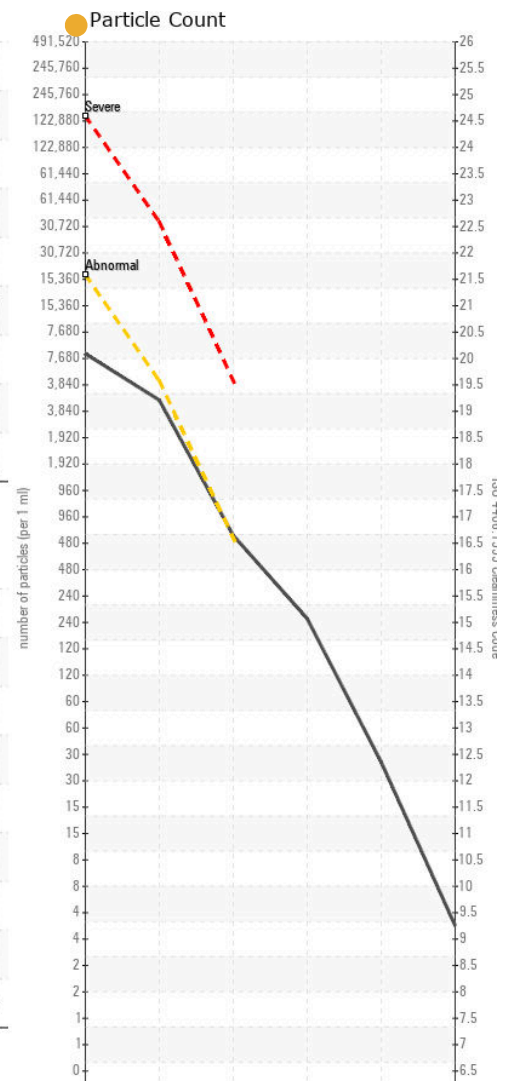
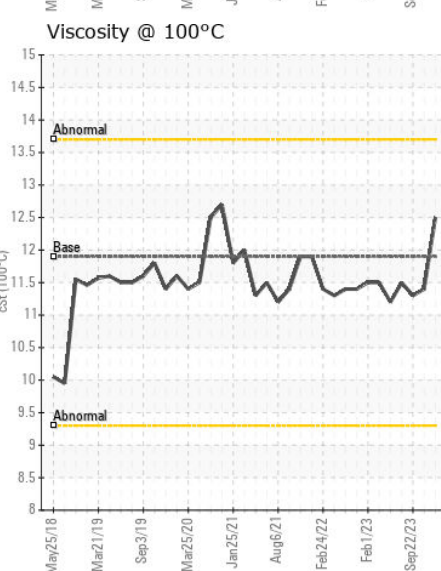
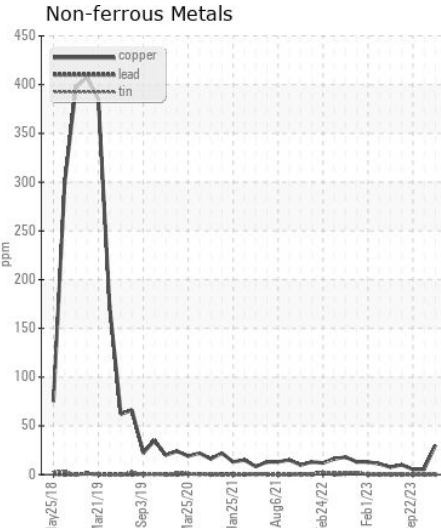
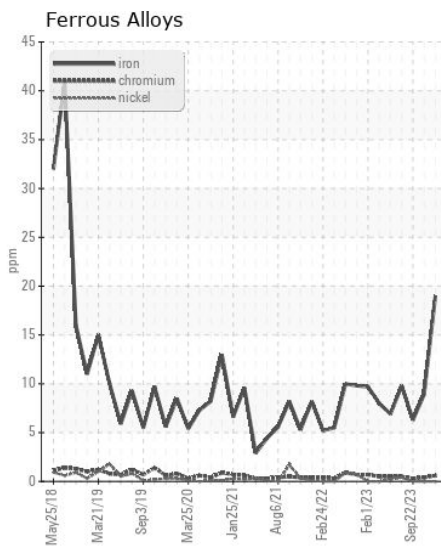
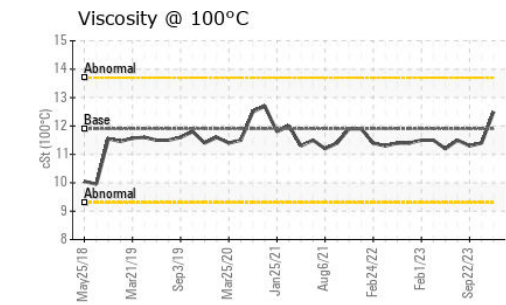
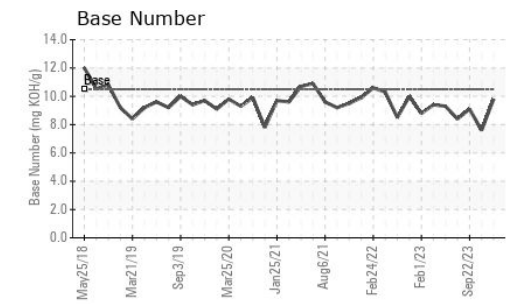
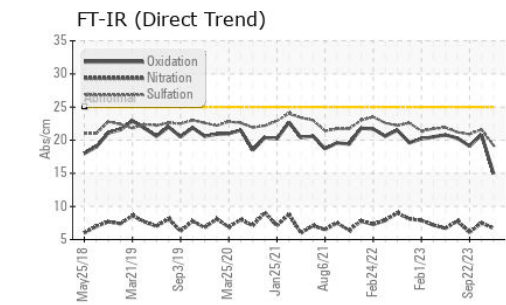
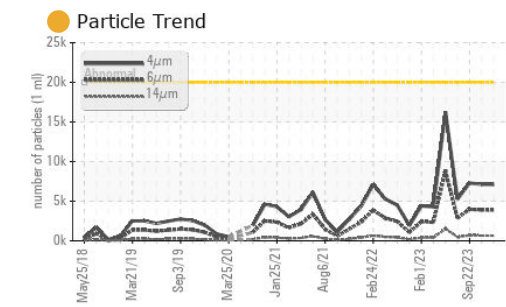
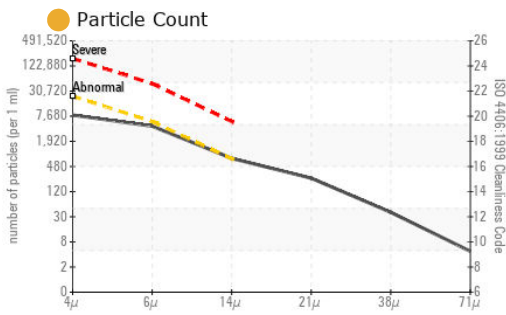
Sodium and/or potassium levels are high. There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	4	9	9
Potassium	ppm	ASTM D5185m	>20	▲ 175	4	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.5	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.6	20.9
Particles >4µm		ASTM D7647	>20000	7116	7125	7290
Particles >6µm		ASTM D7647	>5000	3877	3881	3971
Particles >14µm		ASTM D7647	>640	● 660	● 661	● 676
Particles >21µm		ASTM D7647	>160	● 222	● 223	● 228
Particles >38µm		ASTM D7647	>40	34	34	35
Particles >71µm		ASTM D7647	>10	4	4	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	● 20/19/17	● 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.

Sodium	ppm	ASTM D5185m		▲ 86	2	4
Boron	ppm	ASTM D5185m		12	40	55
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		92	43	47
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		869	515	532
Calcium	ppm	ASTM D5185m		1179	1611	1750
Phosphorus	ppm	ASTM D5185m		1006	746	781
Zinc	ppm	ASTM D5185m		1197	924	939
Sulfur	ppm	ASTM D5185m		3522	2401	3135
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	20.8	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.8	7.6	9.1
Visc @ 100°C	cSt	ASTM D445	11.9	12.5	11.4	11.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919114 **Received** : 12 Apr 2024
Lab Number : 06147196 **Tested** : 16 Apr 2024
Unique Number : 10977274 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, 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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