



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Area

## Mobile Fleet

Machine Id

### 8022 8022

Component

## Diesel Engine

Fluid

### MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947868	WC0937781	WC0902822
Sample Date		Client Info		19 Jun 2024	02 May 2024	06 Feb 2024
Machine Age	hrs	Client Info		15408	15173	14893
Oil Age	hrs	Client Info		529	294	245
Filter Age	hrs	Client Info		529	294	245
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	8	12
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

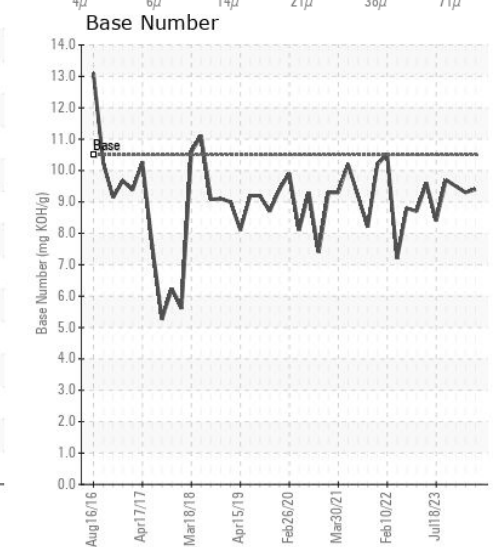
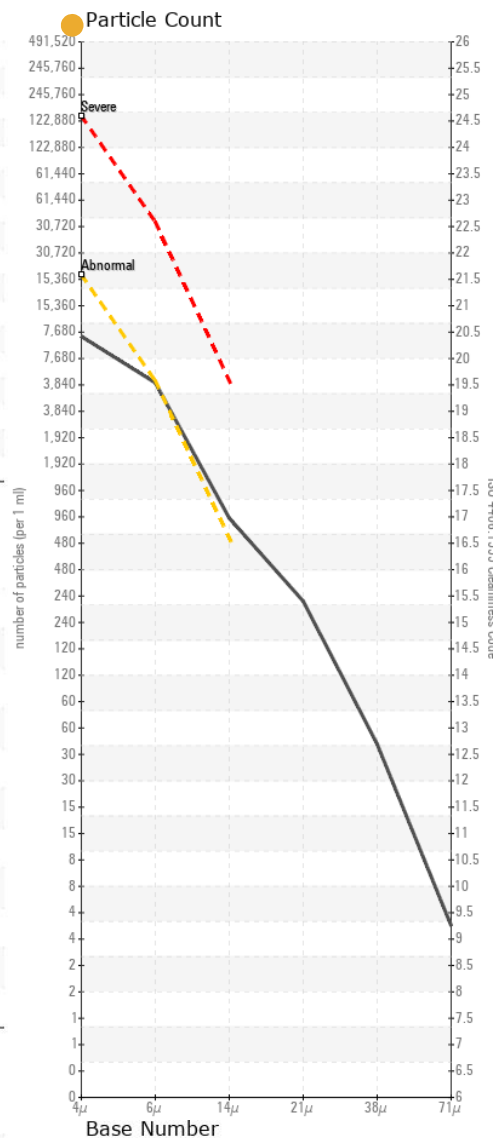
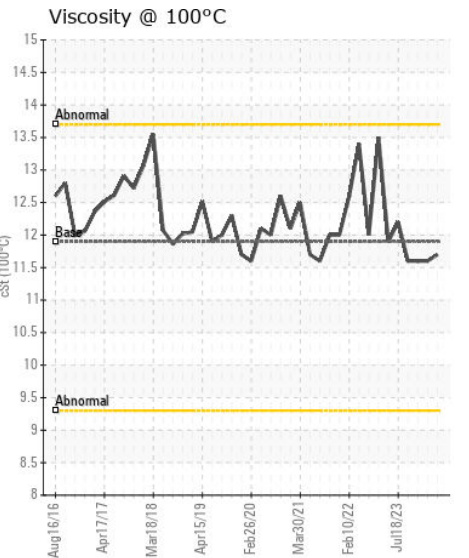
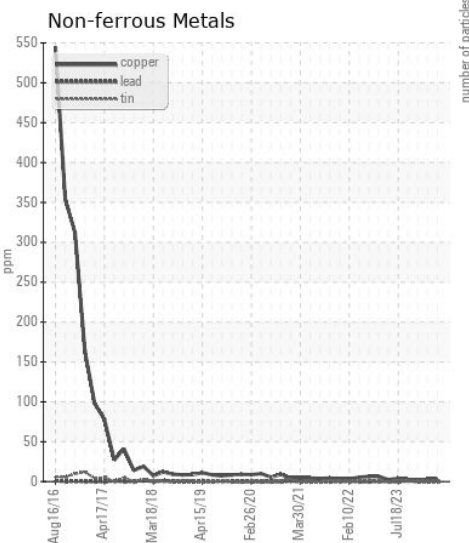
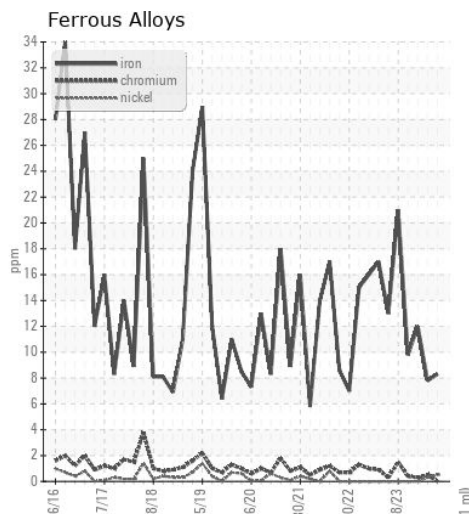
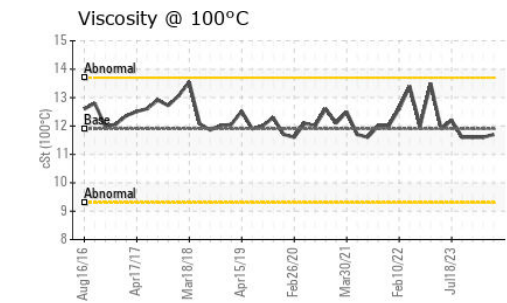
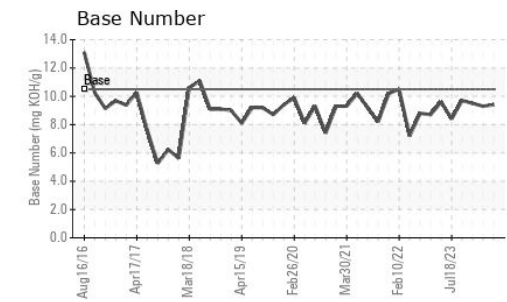
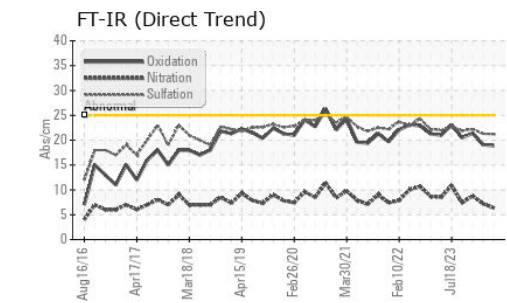
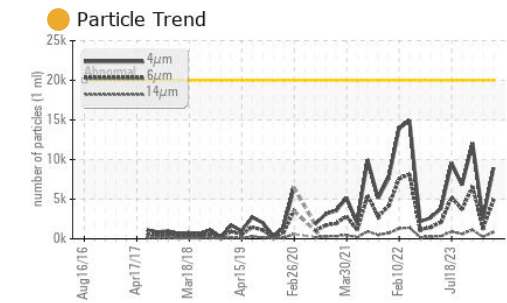
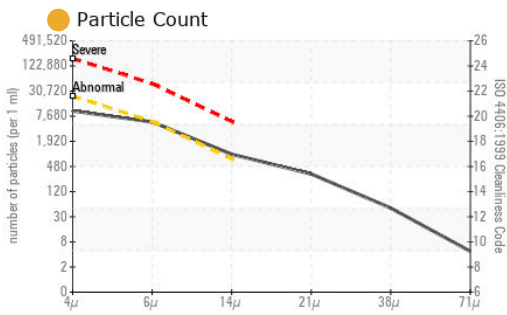
Sodium and/or potassium levels are high. There is a moderate amount of particulates present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	6	6	5
Potassium	ppm	ASTM D5185m	>20	16	10	▲ 37
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	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.3	22.2
Particles >4µm		ASTM D7647	>20000	8934	2558	12058
Particles >6µm		ASTM D7647	>5000	4867	1393	● 6569
Particles >14µm		ASTM D7647	>640	● 828	237	● 1118
Particles >21µm		ASTM D7647	>160	● 279	80	● 377
Particles >38µm		ASTM D7647	>40	● 43	12	● 58
Particles >71µm		ASTM D7647	>10	4	1	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	19/18/15	● 21/20/17
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		● 143	● 95	▲ 404
Boron	ppm	ASTM D5185m		30	43	33
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		52	49	65
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		558	481	513
Calcium	ppm	ASTM D5185m		1755	1587	1610
Phosphorus	ppm	ASTM D5185m		795	724	777
Zinc	ppm	ASTM D5185m		986	891	914
Sulfur	ppm	ASTM D5185m		2995	2499	2426
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	19.1	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	9.3	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	11.7	11.6	11.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947868  
**Lab Number** : 06216744  
**Unique Number** : 11089608  
**Test Package** : CONST ( Additional Tests: Glycol, PrtCount, TBN )

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Jonathan Hester

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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