



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6413 6413
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0955980	WC0937772	WC0902930
Sample Date		Client Info		08 Jul 2024	14 May 2024	08 Mar 2024
Machine Age	hrs	Client Info		16447	16248	15987
Oil Age	hrs	Client Info		199	261	233
Filter Age	hrs	Client Info		199	261	233
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	13	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	6	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	2	<1
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

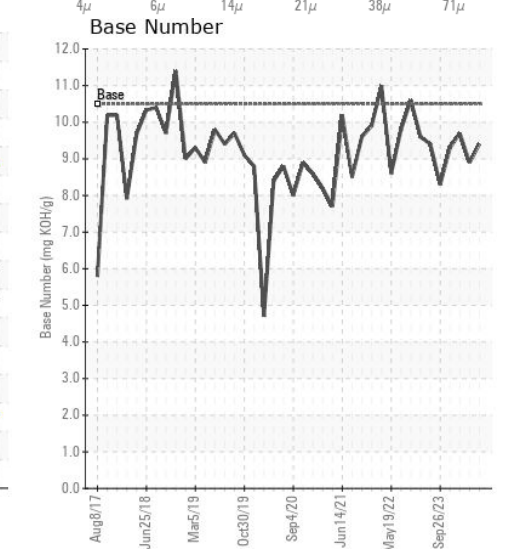
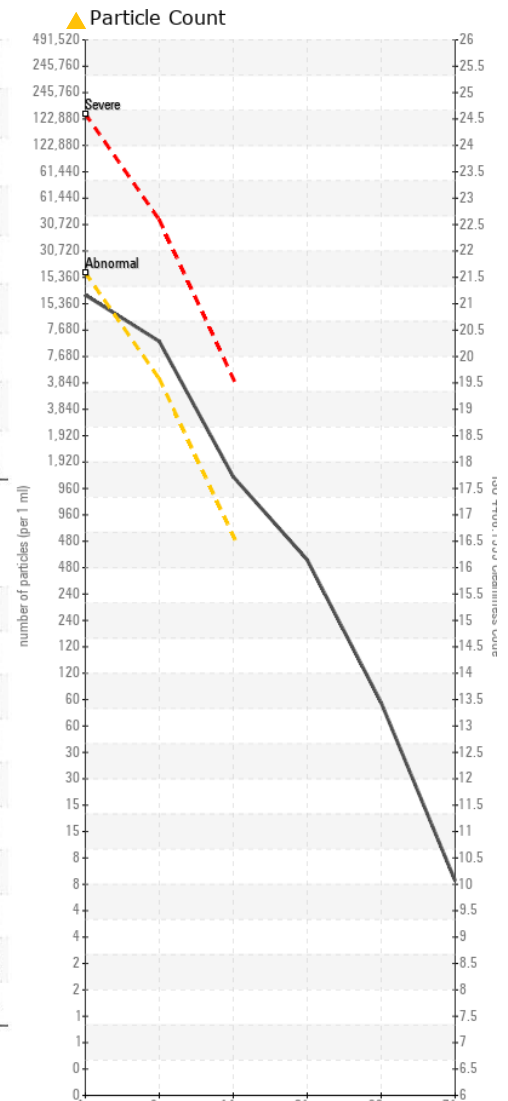
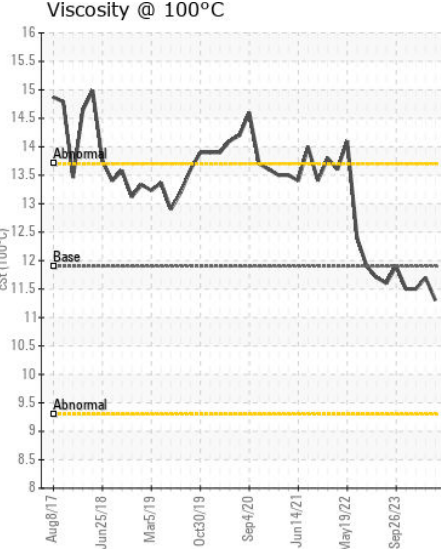
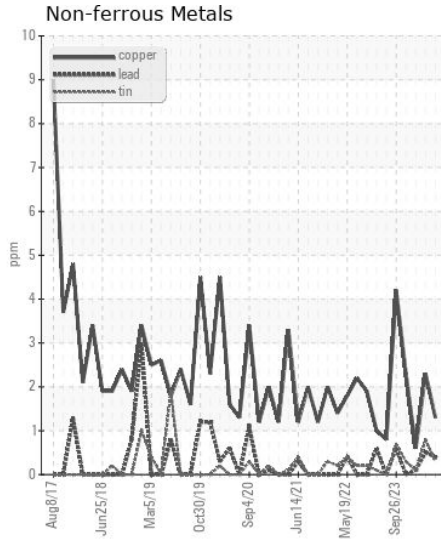
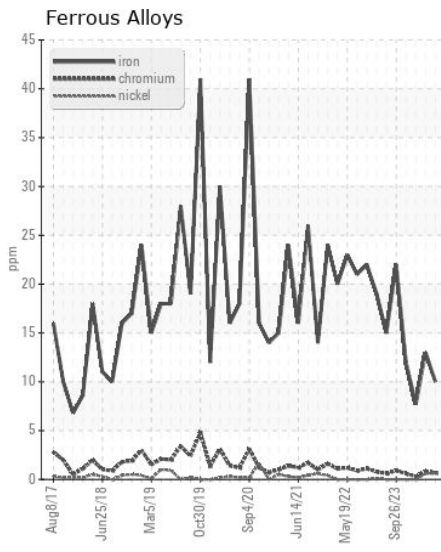
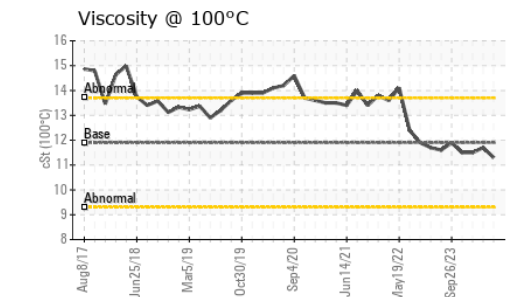
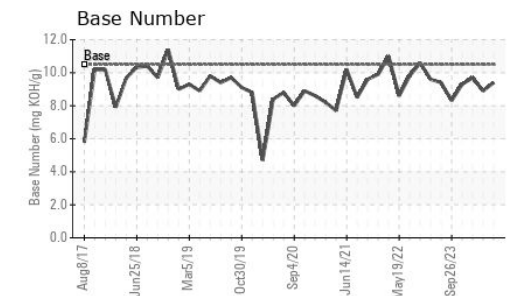
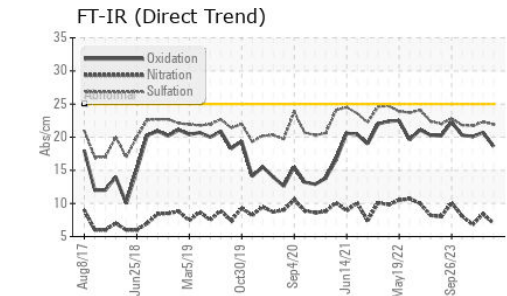
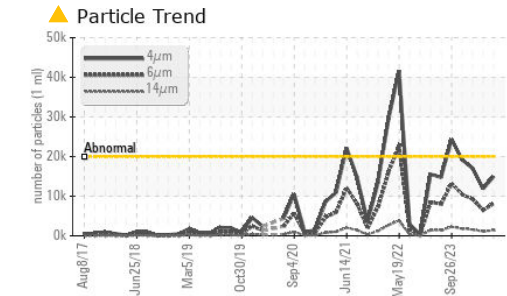
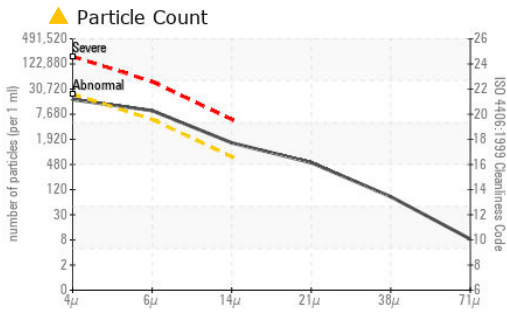
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	8	8	10
Potassium	ppm	ASTM D5185m	>20	3	4	2
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	0.6	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.4	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.3	21.7
Particles >4µm		ASTM D7647	>20000	14955	11875	17008
Particles >6µm		ASTM D7647	>5000	8147	6469	9265
Particles >14µm		ASTM D7647	>640	1386	1101	1577
Particles >21µm		ASTM D7647	>160	467	371	531
Particles >38µm		ASTM D7647	>40	72	57	82
Particles >71µm		ASTM D7647	>10	7	6	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/18	21/20/17	21/20/18
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		3	2	<1
Boron	ppm	ASTM D5185m		48	39	54
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	46	47
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		473	490	480
Calcium	ppm	ASTM D5185m		1584	1684	1603
Phosphorus	ppm	ASTM D5185m		690	817	683
Zinc	ppm	ASTM D5185m		871	939	875
Sulfur	ppm	ASTM D5185m		2413	2932	2367
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	20.7	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	8.9	9.7
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.7	11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0955980 **Received** : 10 Jul 2024
Lab Number : 06232161 **Tested** : 11 Jul 2024
Unique Number : 11115654 **Diagnosed** : 11 Jul 2024 - Don Baldridge
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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