



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION



Area
Mobile Fleet
Machine Id
7613 7613
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (3 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947755	WC0867104	WC0726468
Sample Date		Client Info		20 Jun 2024	29 Nov 2023	29 Aug 2022
Machine Age	hrs	Client Info		3024	2855	2317
Oil Age	hrs	Client Info		176	217	51
Filter Age	hrs	Client Info		176	217	51
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	14	36	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	8	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	0	0	<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

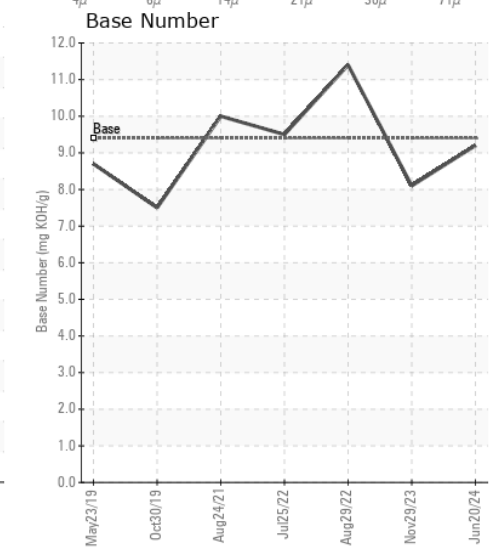
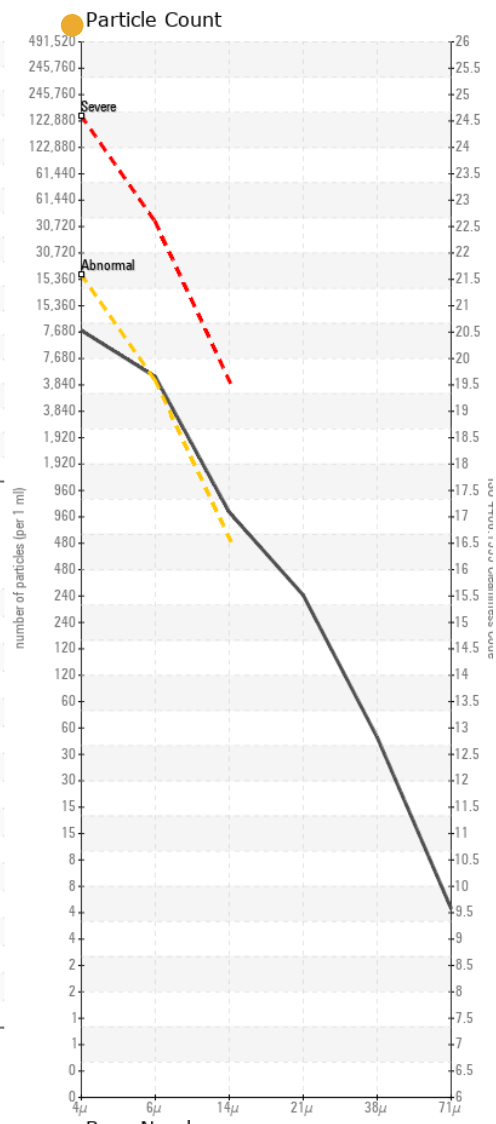
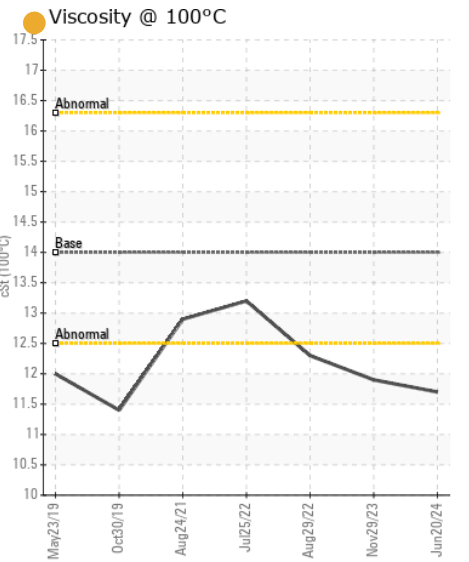
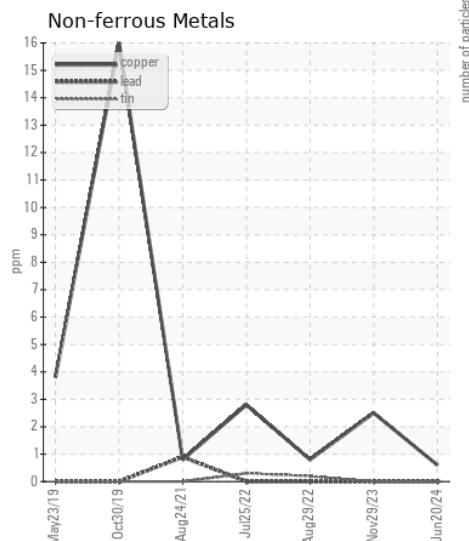
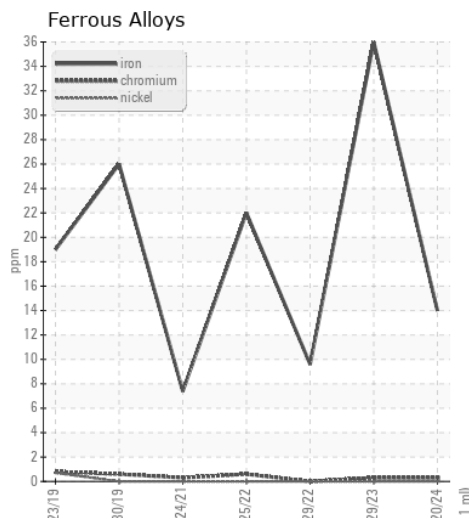
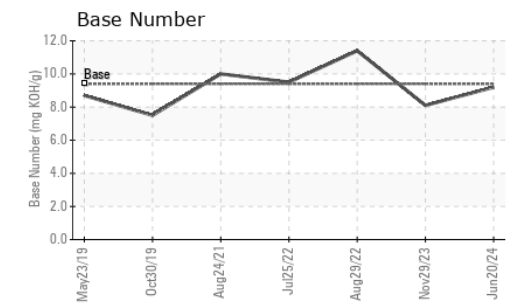
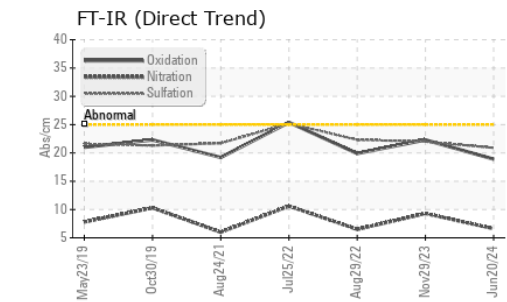
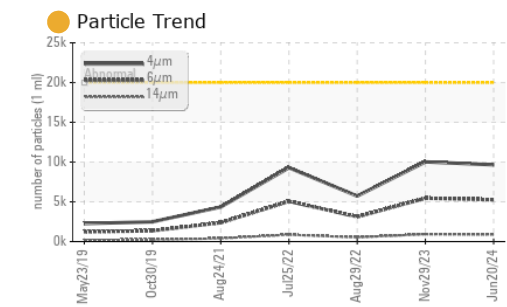
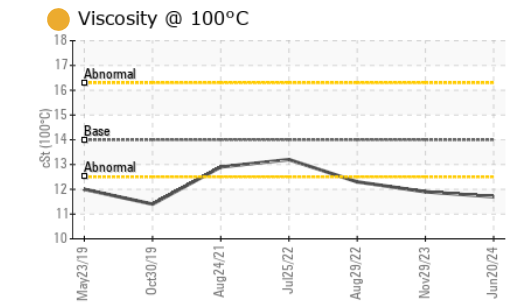
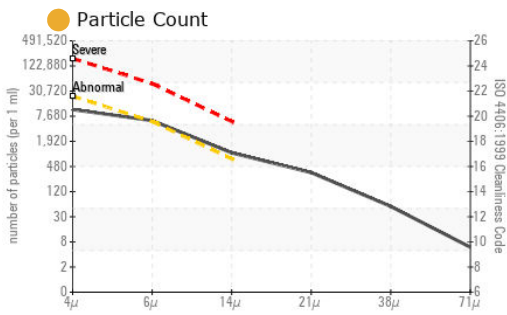
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	15	19	15
Potassium	ppm	ASTM D5185m	>20	0	2	0
Fuel		WC Method	>5	<1.0	<1.0	0.6
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	6.6	9.3	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.0	22.3
Particles >4µm		ASTM D7647	>20000	9657	10022	5727
Particles >6µm		ASTM D7647	>5000	5261	5460	3120
Particles >14µm		ASTM D7647	>640	895	929	531
Particles >21µm		ASTM D7647	>160	302	313	179
Particles >38µm		ASTM D7647	>40	47	48	28
Particles >71µm		ASTM D7647	>10	5	5	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/20/17	21/20/17	20/19/16
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m	0	62	35	75
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	50	49	52
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	505	474	481
Calcium	ppm	ASTM D5185m		1760	1601	1527
Phosphorus	ppm	ASTM D5185m		778	686	679
Zinc	ppm	ASTM D5185m		958	858	842
Sulfur	ppm	ASTM D5185m		2932	2190	2305
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	22.3	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.2	8.1	11.4
Visc @ 100°C	cSt	ASTM D445	14	11.7	11.9	12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947755 **Received** : 24 Jun 2024
Lab Number : 06218037 **Tested** : 25 Jun 2024
Unique Number : 11096234 **Diagnosed** : 25 Jun 2024 - Don Baldrige
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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