



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6421 6421
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		WC0939414	WC0861782	WC0867084
Sample Date		Client Info		21 May 2024	17 Jan 2024	07 Nov 2023
Machine Age	hrs	Client Info		12876	12592	12241
Oil Age	hrs	Client Info		927	344	292
Filter Age	hrs	Client Info		927	344	292
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	26	8	3
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	4	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	5	2	<1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

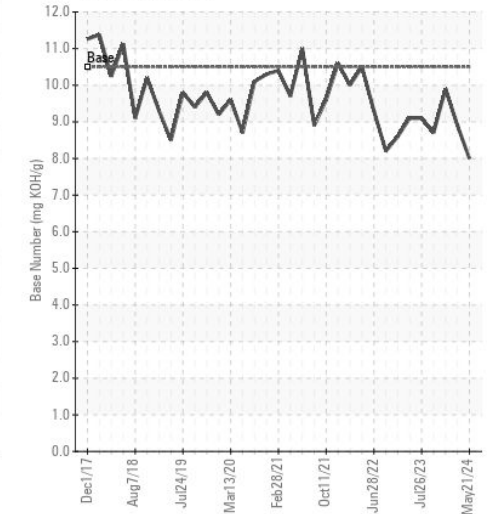
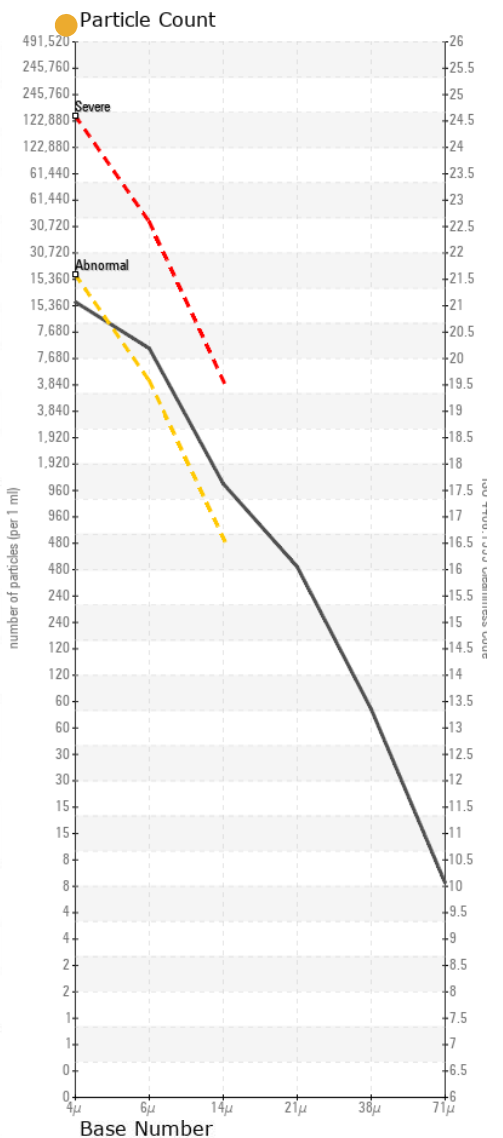
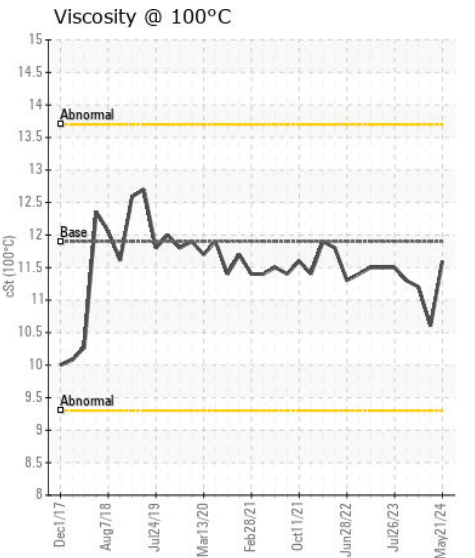
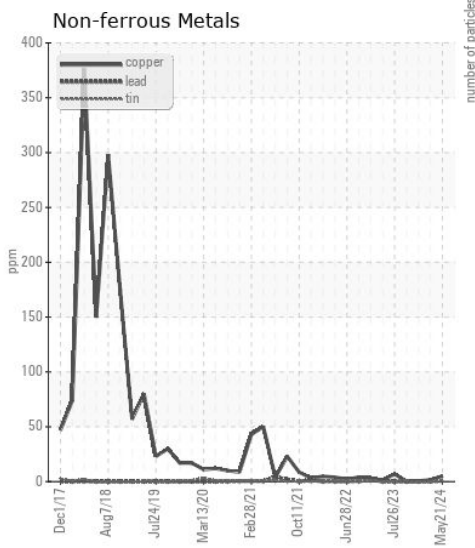
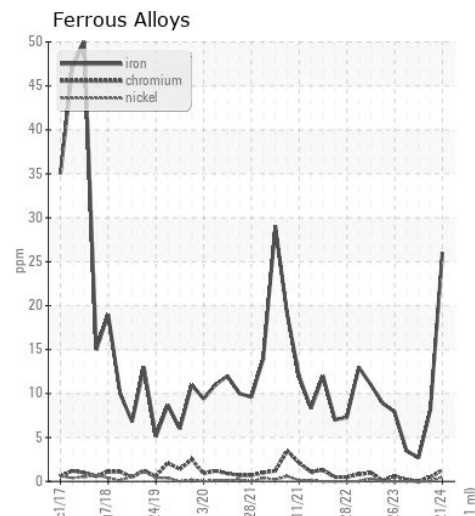
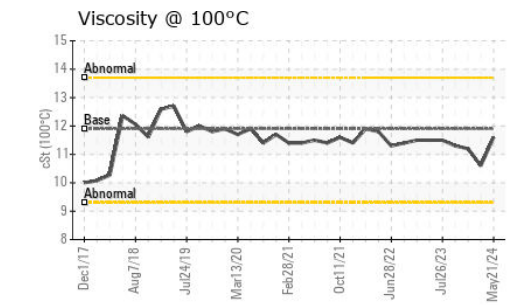
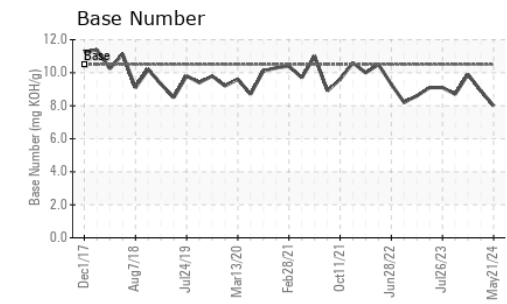
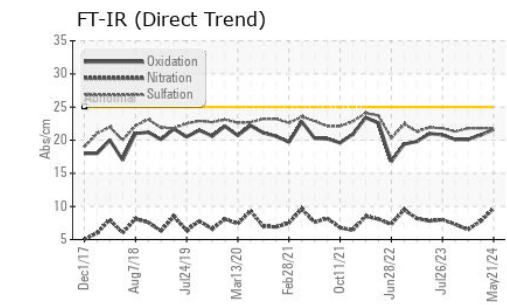
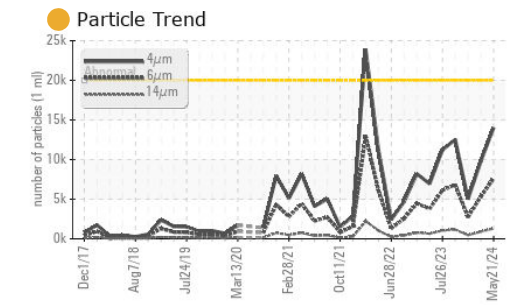
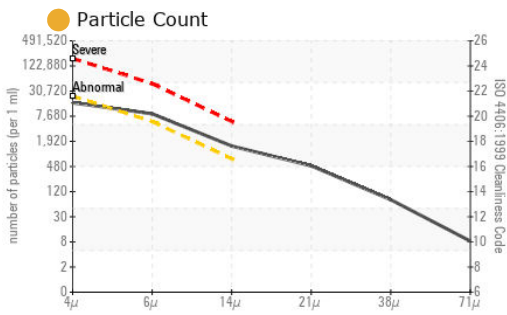
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	8	7	7
Potassium	ppm	ASTM D5185m	>20	11	<1	<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	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.7	7.8	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.8	21.8
Particles >4µm		ASTM D7647	>20000	14015	9761	5020
Particles >6µm		ASTM D7647	>5000	7635	5317	2735
Particles >14µm		ASTM D7647	>640	1299	905	465
Particles >21µm		ASTM D7647	>160	438	305	157
Particles >38µm		ASTM D7647	>40	68	47	24
Particles >71µm		ASTM D7647	>10	7	5	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	20/20/17	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 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	3	2
Boron	ppm	ASTM D5185m		41	41	51
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	54	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		544	537	511
Calcium	ppm	ASTM D5185m		1826	1653	1665
Phosphorus	ppm	ASTM D5185m		816	763	728
Zinc	ppm	ASTM D5185m		1004	935	928
Sulfur	ppm	ASTM D5185m		2757	2494	2443
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	20.8	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.0	8.9	9.9
Visc @ 100°C	cSt	ASTM D445	11.9	11.6	10.6	11.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939414 **Received** : 23 May 2024
Lab Number : 06189096 **Tested** : 28 May 2024
Unique Number : 11045848 **Diagnosed** : 28 May 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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