



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6403 6403
 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		WC0902851	WC0861742	WC0808818
Sample Date		Client Info		27 Feb 2024	20 Nov 2023	20 Jul 2023
Machine Age	hrs	Client Info		10476	10268	9631
Oil Age	hrs	Client Info		242	637	327
Filter Age	hrs	Client Info		242	637	327
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	18	33	49
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	9	14
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	7	4	8
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

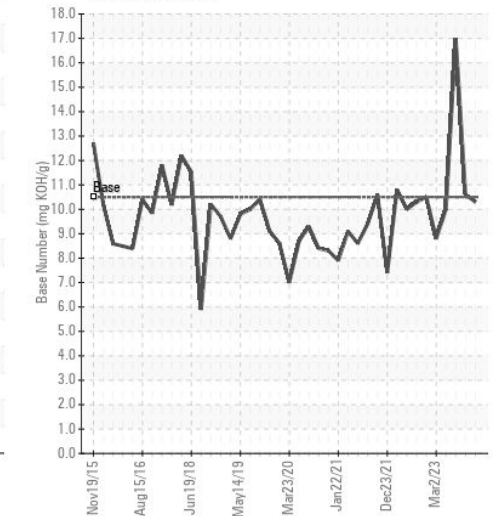
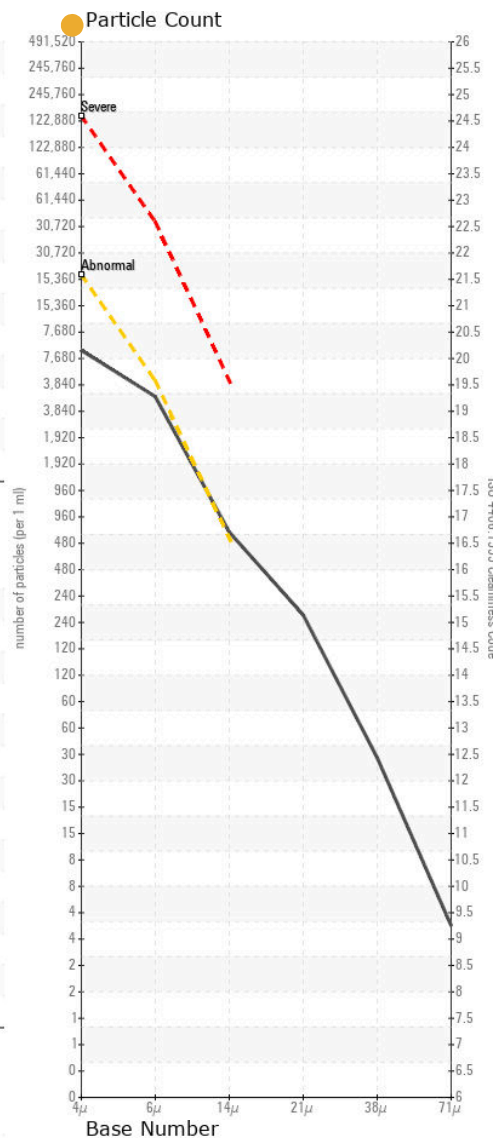
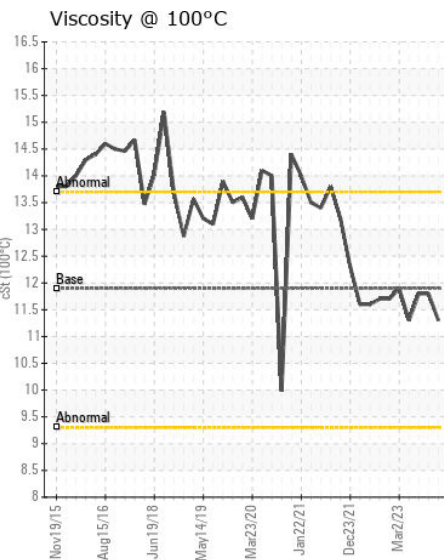
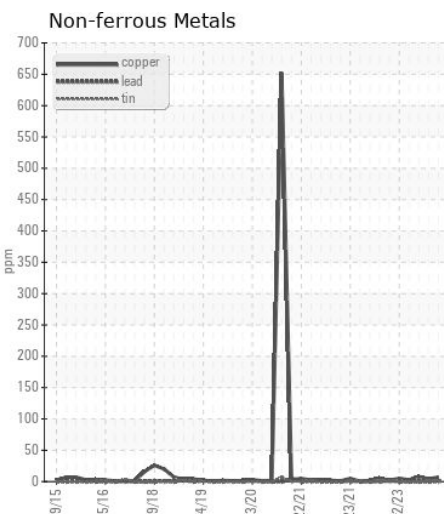
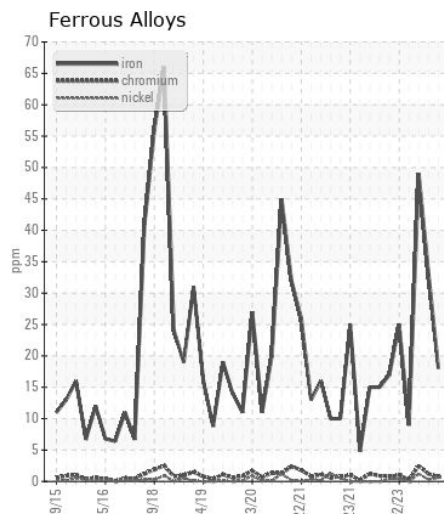
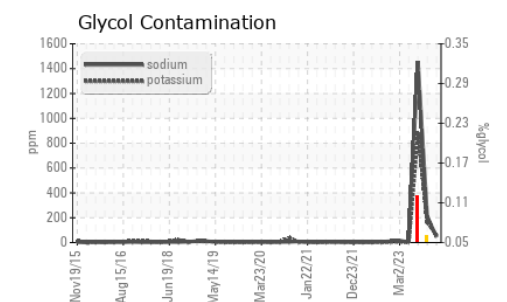
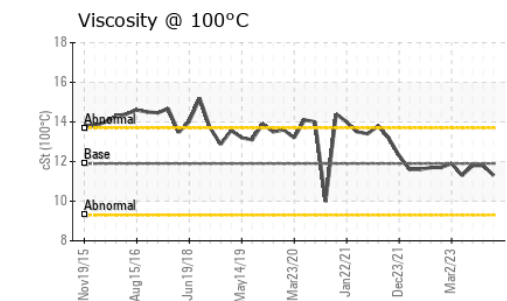
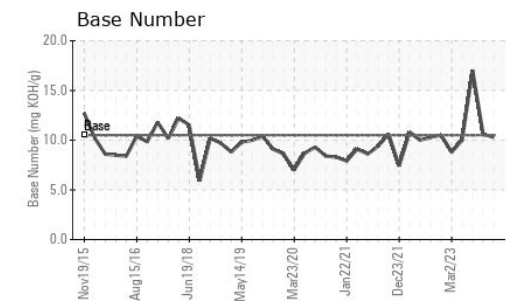
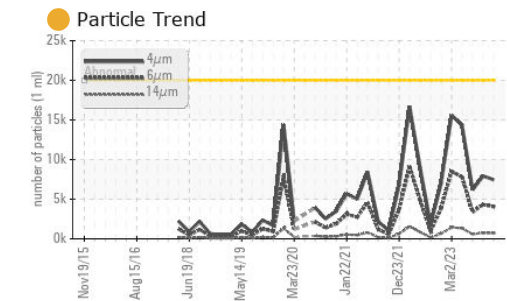
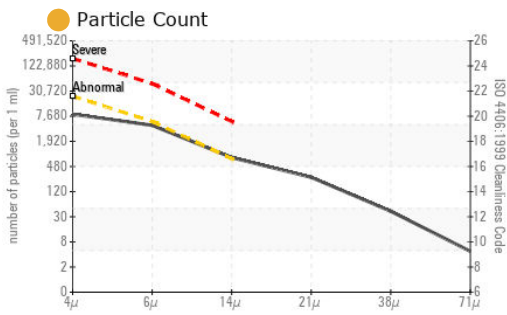
There is a moderate amount of particulates present in the oil. Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	9	9	2
Potassium	ppm	ASTM D5185m	>20	62	161	886
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	0.06	0.12
Soot %	%	*ASTM D7844	>3	0.1	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.5	9.9	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	23.6	22.8
Particles >4µm		ASTM D7647	>20000	7447	7934	6177
Particles >6µm		ASTM D7647	>5000	4057	4322	3365
Particles >14µm		ASTM D7647	>640	690	736	573
Particles >21µm		ASTM D7647	>160	233	248	193
Particles >38µm		ASTM D7647	>40	36	38	30
Particles >71µm		ASTM D7647	>10	4	4	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/19/17	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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		45	214	1458
Boron	ppm	ASTM D5185m		38	23	7
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		55	77	239
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		590	520	462
Calcium	ppm	ASTM D5185m		1937	1642	1588
Phosphorus	ppm	ASTM D5185m		773	762	723
Zinc	ppm	ASTM D5185m		1122	939	888
Sulfur	ppm	ASTM D5185m		2893	2390	2615
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	21.6	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	10.3	10.6	17.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.8	11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902851 **Received** : 29 Feb 2024
Lab Number : 06104220 **Tested** : 05 Mar 2024
Unique Number : 10902450 **Diagnosed** : 05 Mar 2024 - Jonathan Hester
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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