



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6420 6420

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		WC0947871	WC0939389	WC0902931
Sample Date		Client Info		19 Jun 2024	08 May 2024	08 Mar 2024
Machine Age	hrs	Client Info		14776	14491	14103
Oil Age	hrs	Client Info		285	680	292
Filter Age	hrs	Client Info		285	680	292
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	5	30	11
Chromium	ppm	ASTM D5185m	>20	0	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	▲ 22	11
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	3	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

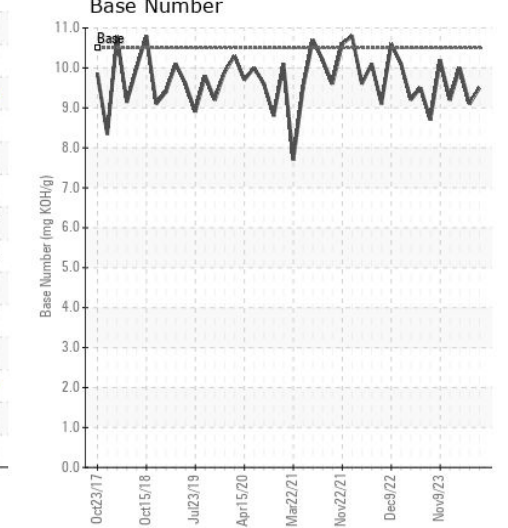
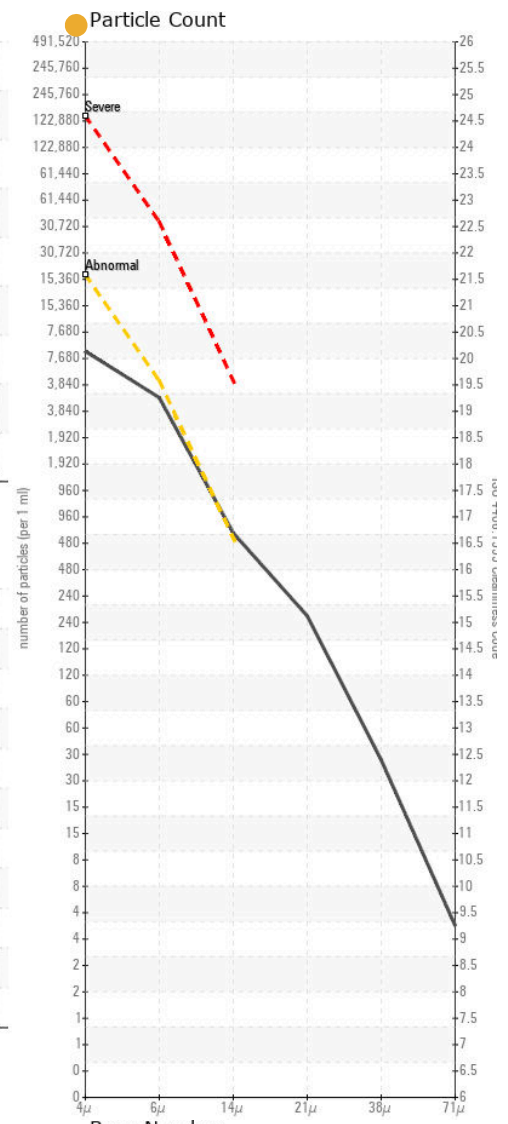
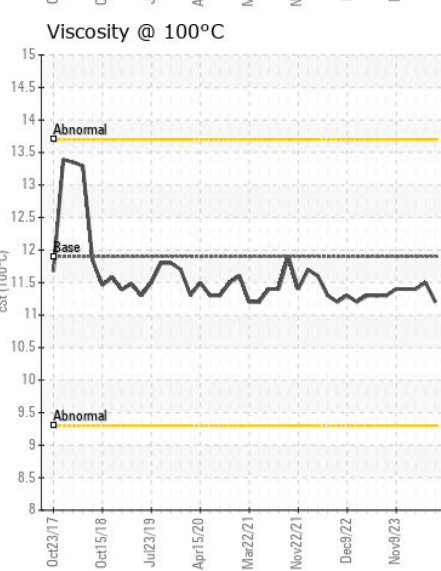
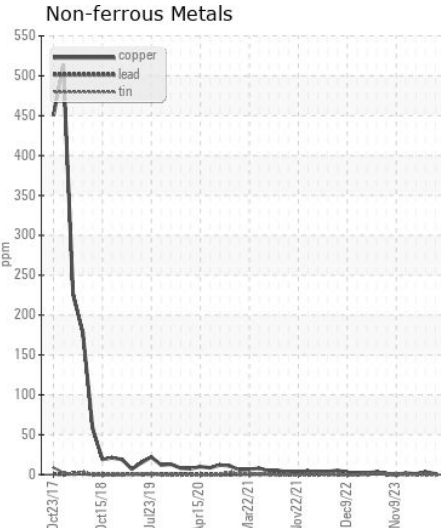
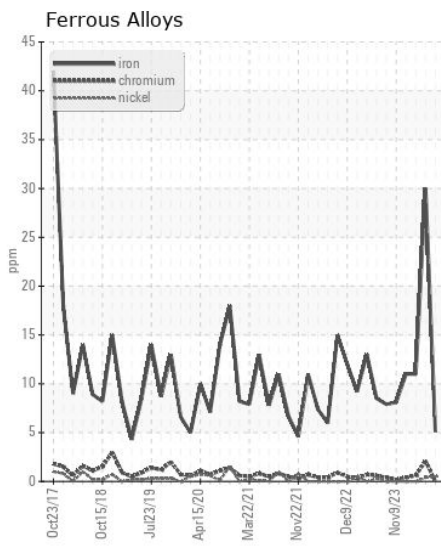
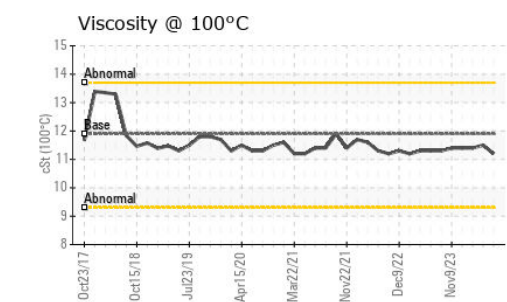
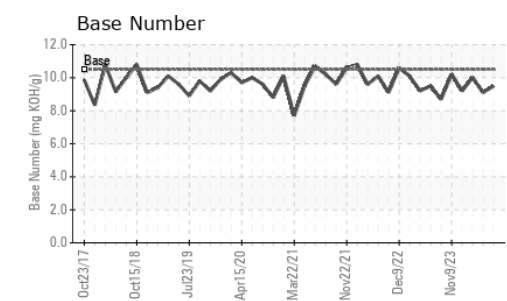
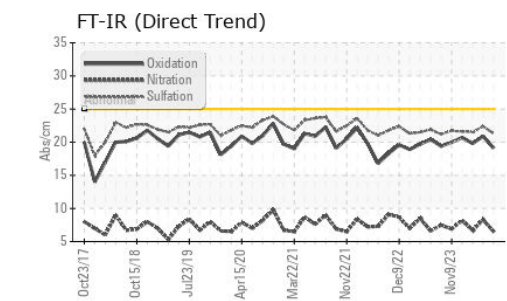
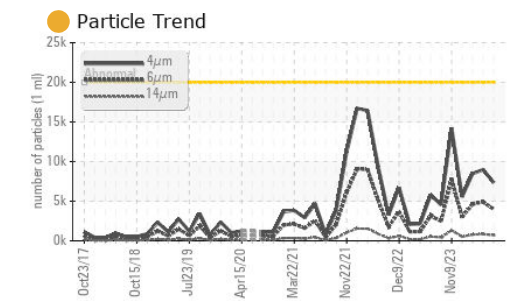
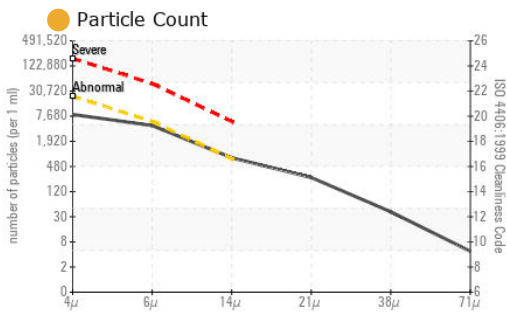
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	14	10
Potassium	ppm	ASTM D5185m	>20	5	12	7
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	0.2	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.5	8.3	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	22.4	21.5
Particles >4µm		ASTM D7647	>20000	7351	8978	8482
Particles >6µm		ASTM D7647	>5000	4005	4891	4621
Particles >14µm		ASTM D7647	>640	● 682	● 832	● 786
Particles >21µm		ASTM D7647	>160	● 230	● 280	● 265
Particles >38µm		ASTM D7647	>40	● 35	● 43	● 41
Particles >71µm		ASTM D7647	>10	4	4	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	● 20/19/17	● 20/19/17
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	3	0
Boron	ppm	ASTM D5185m		48	70	53
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		47	73	45
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		550	770	484
Calcium	ppm	ASTM D5185m		1711	2567	1612
Phosphorus	ppm	ASTM D5185m		794	1208	722
Zinc	ppm	ASTM D5185m		964	1400	898
Sulfur	ppm	ASTM D5185m		3043	4168	2573
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	20.9	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.5	9.1	10.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.5	11.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947871 **Received** : 21 Jun 2024
Lab Number : 06216745 **Tested** : 24 Jun 2024
Unique Number : 11089609 **Diagnosed** : 24 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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