



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6417 6417

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947895	WC0937896	WC0902887
Sample Date		Client Info		24 Jun 2024	29 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		14522	14142	13755
Oil Age	hrs	Client Info		380	719	6417
Filter Age	hrs	Client Info		380	719	6417
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	11	16	10
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	8	4
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>30	2	5	3
Tin	ppm	ASTM D5185m	>15	0	<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

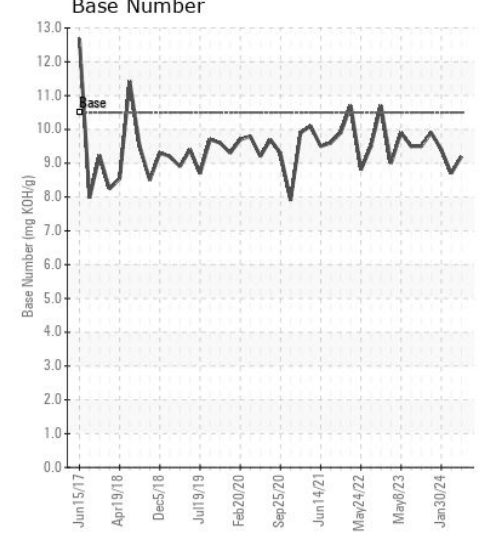
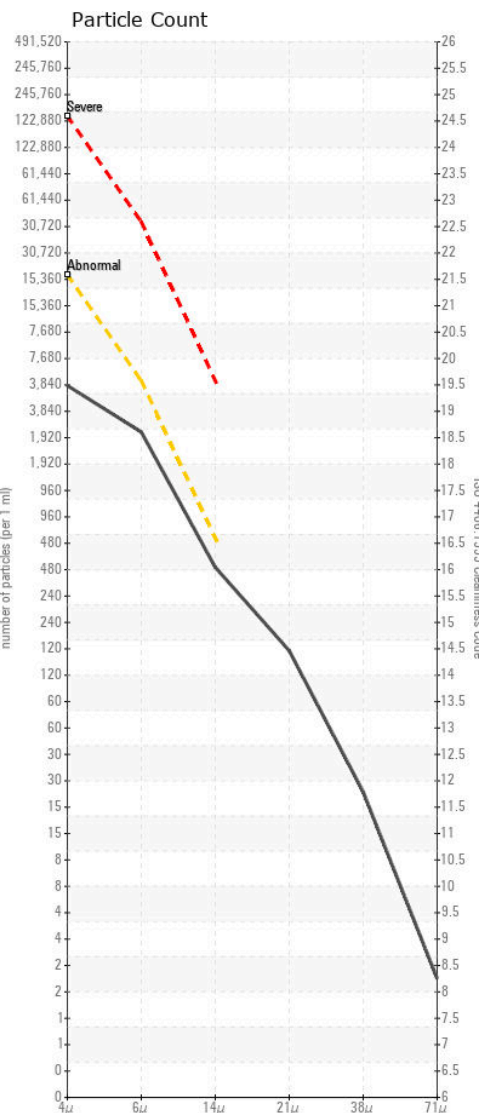
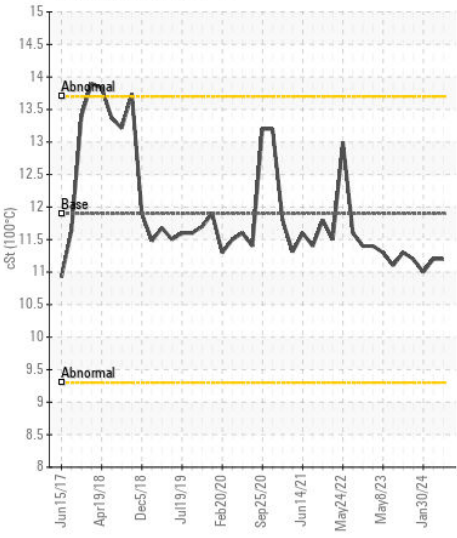
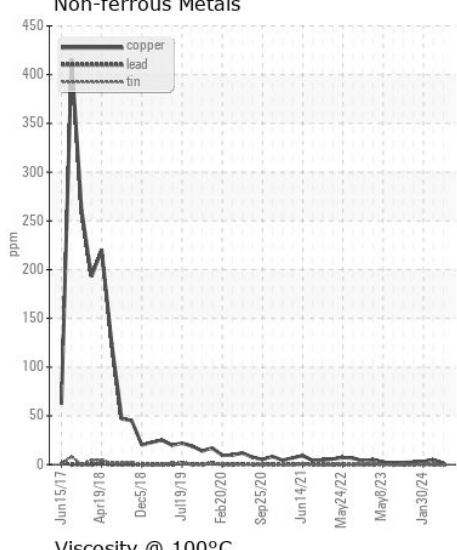
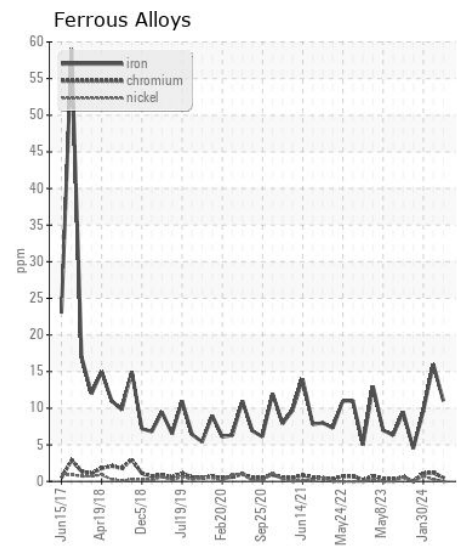
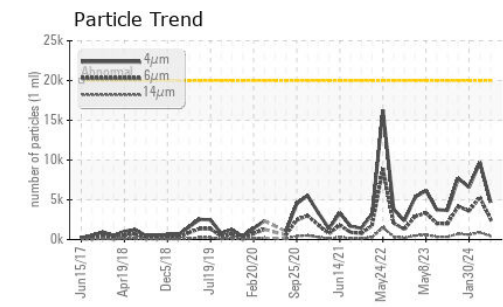
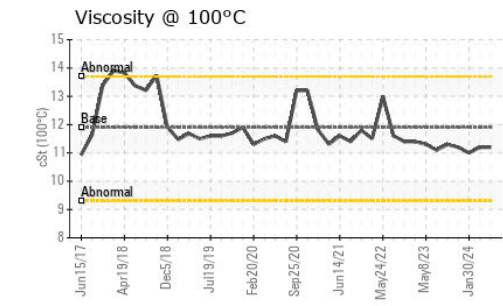
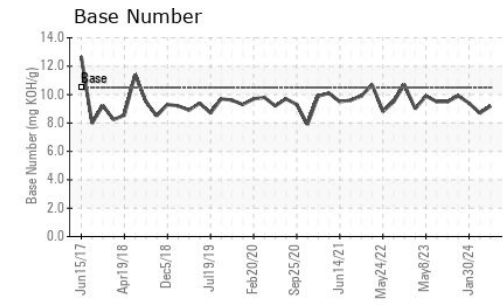
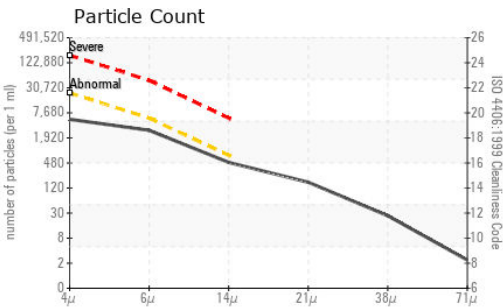
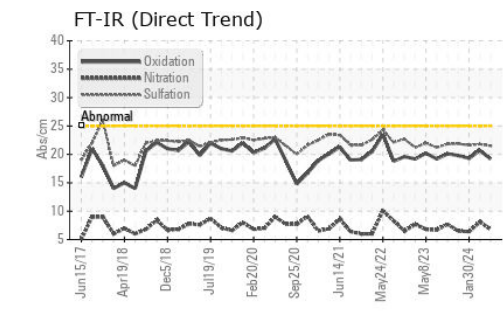
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	7	9	8
Potassium	ppm	ASTM D5185m	>20	4	7	5
Fuel		WC Method	>3.0	<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	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.1	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.8	21.6
Particles >4µm		ASTM D7647	>20000	4689	9717	6577
Particles >6µm		ASTM D7647	>5000	2554	5294	3583
Particles >14µm		ASTM D7647	>640	435	901	610
Particles >21µm		ASTM D7647	>160	146	303	205
Particles >38µm		ASTM D7647	>40	23	47	32
Particles >71µm		ASTM D7647	>10	2	5	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/19/16	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		2	1	0
Boron	ppm	ASTM D5185m		37	39	54
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	51	51
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		485	478	505
Calcium	ppm	ASTM D5185m		1593	1670	1518
Phosphorus	ppm	ASTM D5185m		637	781	758
Zinc	ppm	ASTM D5185m		924	920	906
Sulfur	ppm	ASTM D5185m		2284	2618	2526
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	20.7	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.2	8.7	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.2	11.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947895 **Received** : 26 Jun 2024
Lab Number : 06221066 **Tested** : 27 Jun 2024
Unique Number : 11099263 **Diagnosed** : 27 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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