



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8111 8111
 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		WC0956040	WC0947813	WC0919137
Sample Date		Client Info		11 Jul 2024	05 Jun 2024	17 Apr 2024
Machine Age	hrs	Client Info		13350	13119	12866
Oil Age	hrs	Client Info		226	520	267
Filter Age	hrs	Client Info		226	520	267
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	9	11	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	3	0
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

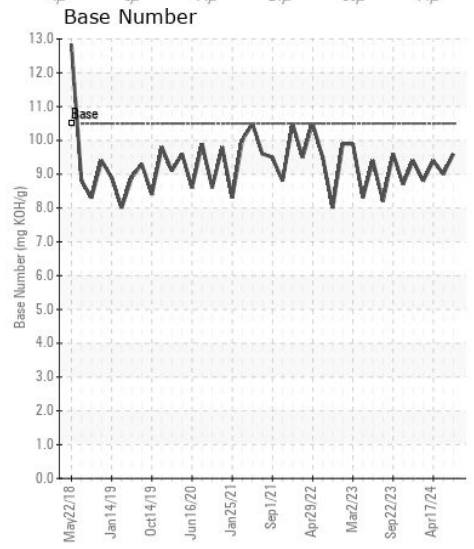
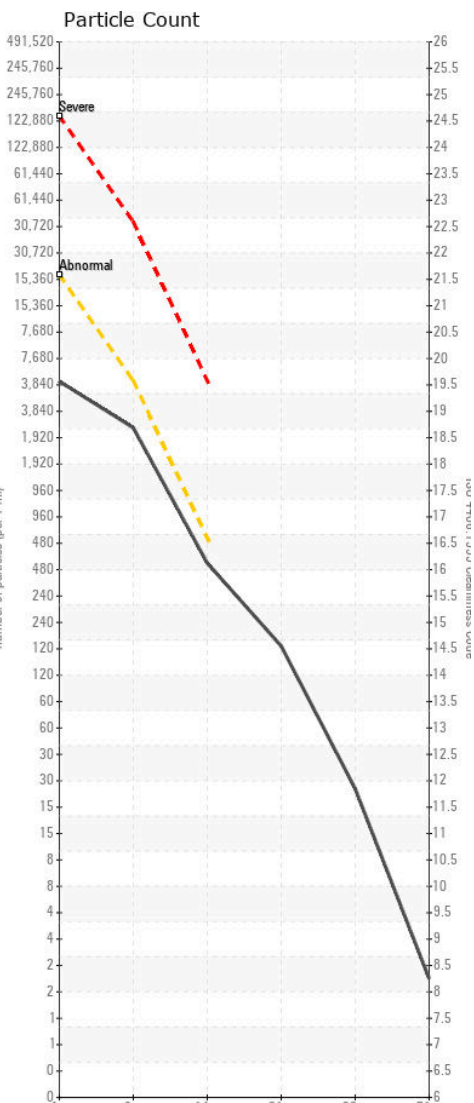
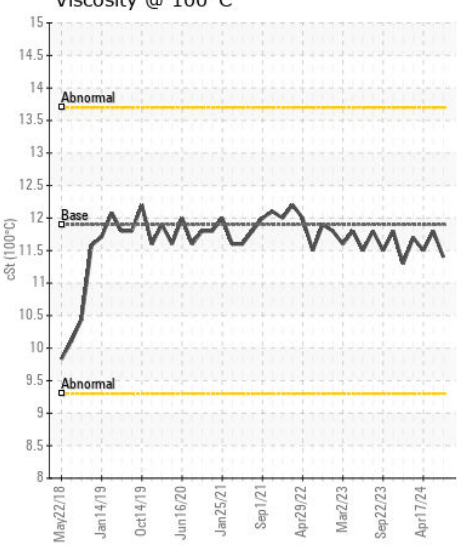
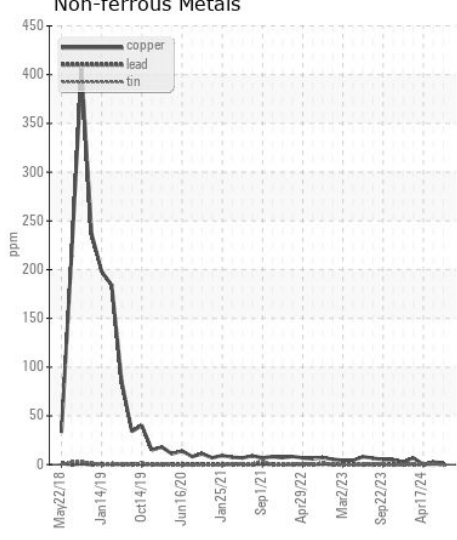
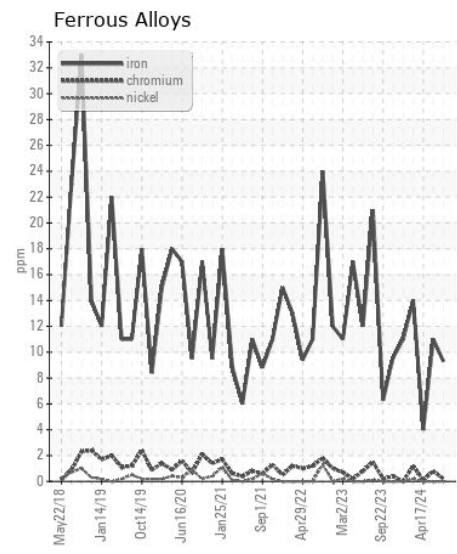
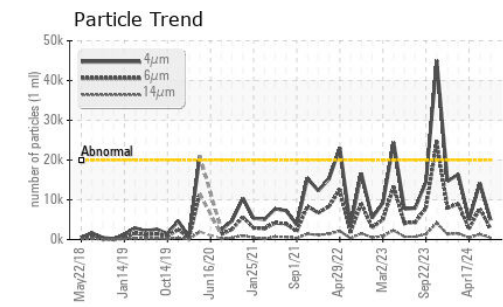
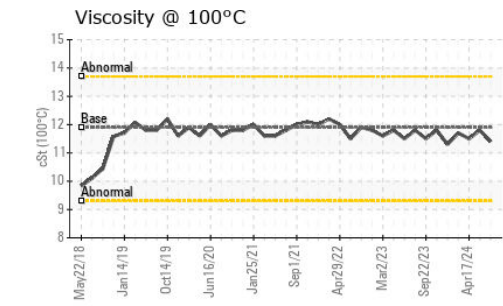
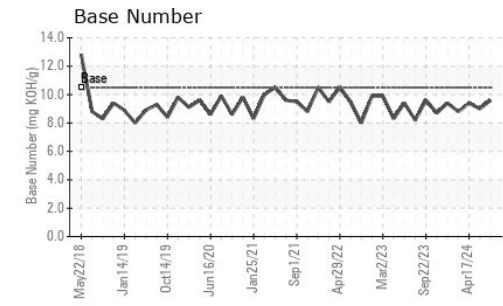
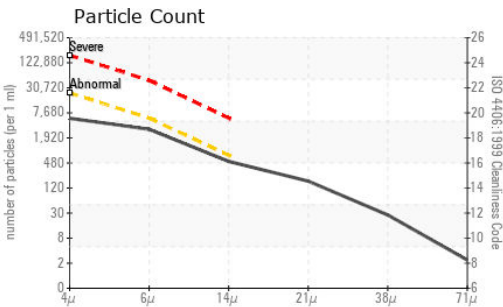
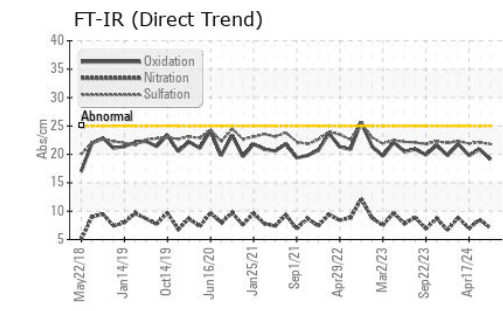
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	8	8
Potassium	ppm	ASTM D5185m	>20	20	26	12
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	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.5	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.1	21.9
Particles >4µm		ASTM D7647	>20000	4959	14198	4985
Particles >6µm		ASTM D7647	>5000	2701	▲ 7734	2716
Particles >14µm		ASTM D7647	>640	460	▲ 1316	462
Particles >21µm		ASTM D7647	>160	155	▲ 443	156
Particles >38µm		ASTM D7647	>40	24	▲ 68	24
Particles >71µm		ASTM D7647	>10	2	7	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/19/16	▲ 21/20/18	19/19/16
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		23	35	17
Boron	ppm	ASTM D5185m		34	35	43
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	53	48
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		524	556	526
Calcium	ppm	ASTM D5185m		1746	1890	1763
Phosphorus	ppm	ASTM D5185m		779	842	801
Zinc	ppm	ASTM D5185m		920	1023	940
Sulfur	ppm	ASTM D5185m		2865	3061	2863
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	20.9	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.6	9.0	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.8	11.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956040 **Received** : 15 Jul 2024
Lab Number : 06235742 **Tested** : 16 Jul 2024
Unique Number : 11124576 **Diagnosed** : 16 Jul 2024 - Don Baldridge
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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