



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6444 6444
 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		WC0919050	WC0861809	WC0861642
Sample Date		Client Info		15 Apr 2024	07 Feb 2024	07 Dec 2023
Machine Age	hrs	Client Info		8262	7965	7654
Oil Age	hrs	Client Info		302	316	418
Filter Age	hrs	Client Info		302	316	418
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	7	2	9
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	3	2	5
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>180	10	7	13
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

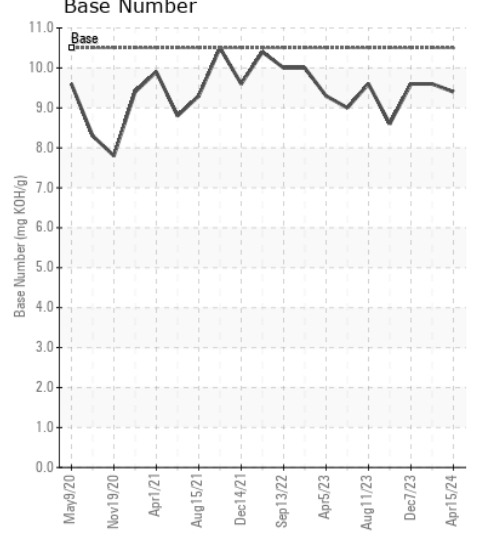
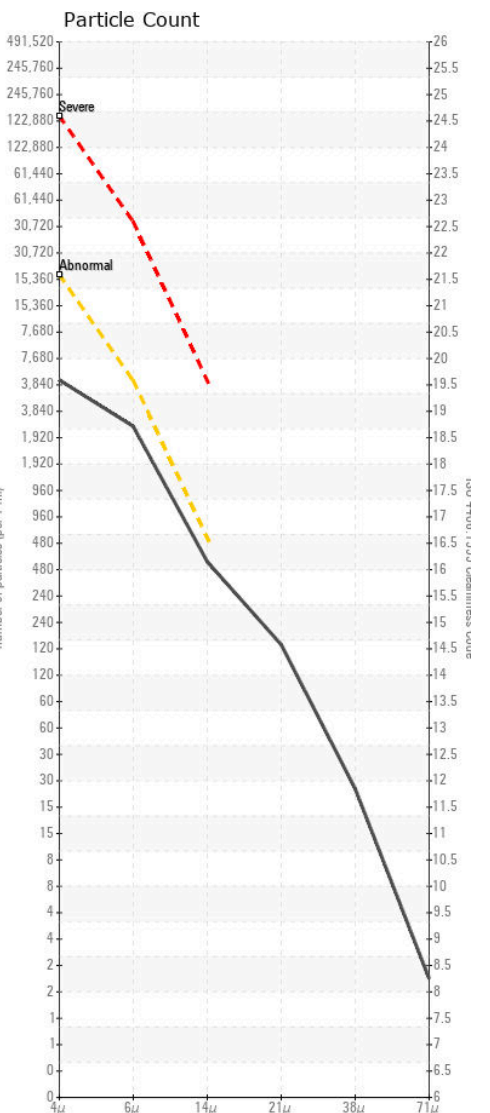
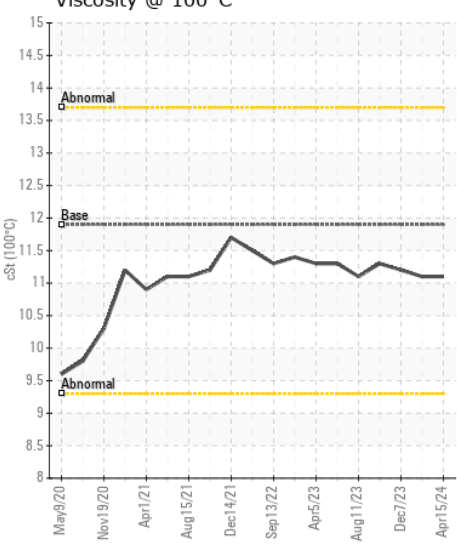
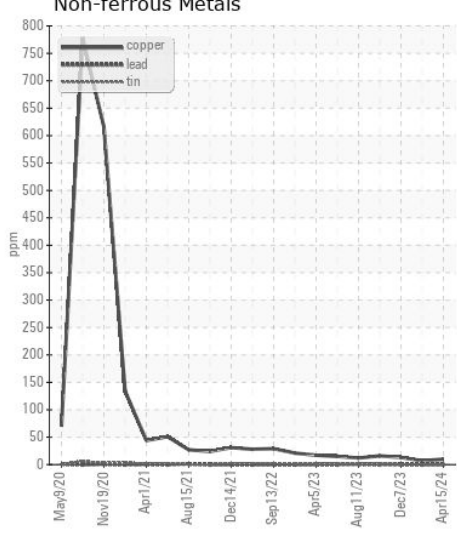
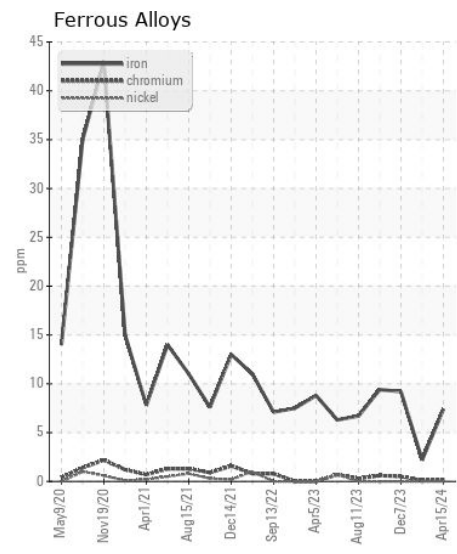
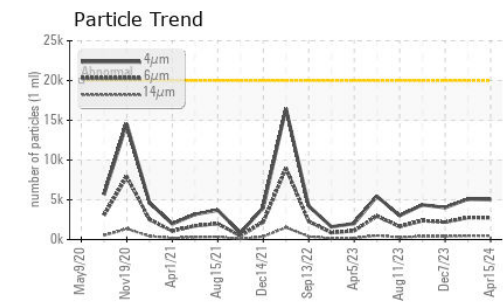
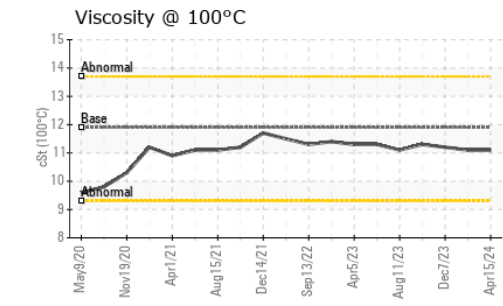
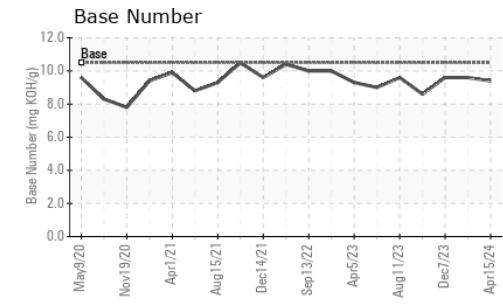
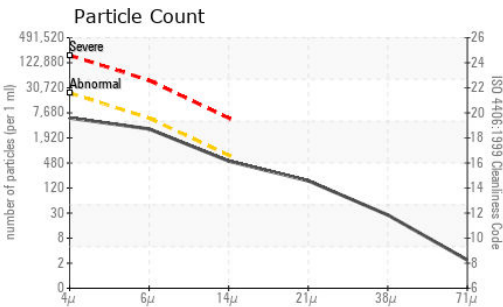
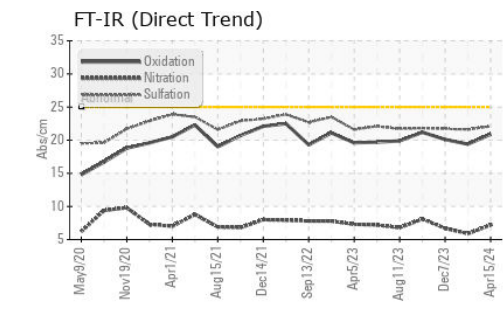
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	4	4	7
Potassium	ppm	ASTM D5185m	>20	4	0	6
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	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.2	5.9	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.6	21.7
Particles >4µm		ASTM D7647	>20000	5046	5089	4019
Particles >6µm		ASTM D7647	>5000	2749	2772	2189
Particles >14µm		ASTM D7647	>640	468	472	373
Particles >21µm		ASTM D7647	>160	158	159	126
Particles >38µm		ASTM D7647	>40	24	25	19
Particles >71µm		ASTM D7647	>10	2	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	20/19/16	19/18/16
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	2	5
Boron	ppm	ASTM D5185m		44	62	74
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		51	47	77
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		496	503	713
Calcium	ppm	ASTM D5185m		1763	1618	2241
Phosphorus	ppm	ASTM D5185m		829	765	1019
Zinc	ppm	ASTM D5185m		967	877	1263
Sulfur	ppm	ASTM D5185m		2511	2329	3290
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	19.4	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	9.6	9.6
Visc @ 100°C	cSt	ASTM D445	11.9	11.1	11.1	11.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919050 **Received** : 17 Apr 2024
Lab Number : 06151849 **Tested** : 18 Apr 2024
Unique Number : 10981927 **Diagnosed** : 19 Apr 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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