



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6424 6424
 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		WC0947915	WC0939416	WC0918709
Sample Date		Client Info		01 Jul 2024	21 May 2024	04 Apr 2024
Machine Age	hrs	Client Info		12260	11977	11706
Oil Age	hrs	Client Info		273	504	233
Filter Age	hrs	Client Info		273	504	233
Oil Changed		Client Info		Changed	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	5	15	8
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	4	9	4
Tin	ppm	ASTM D5185m	>15	0	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

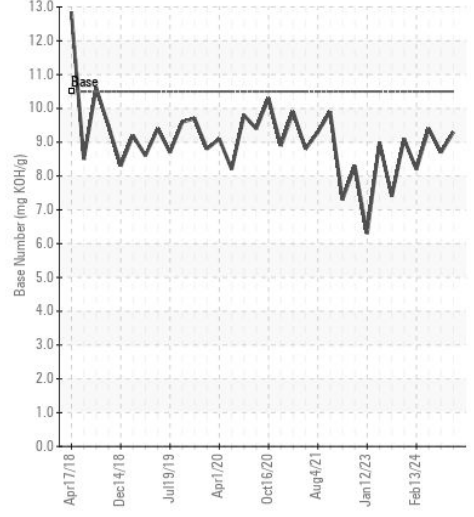
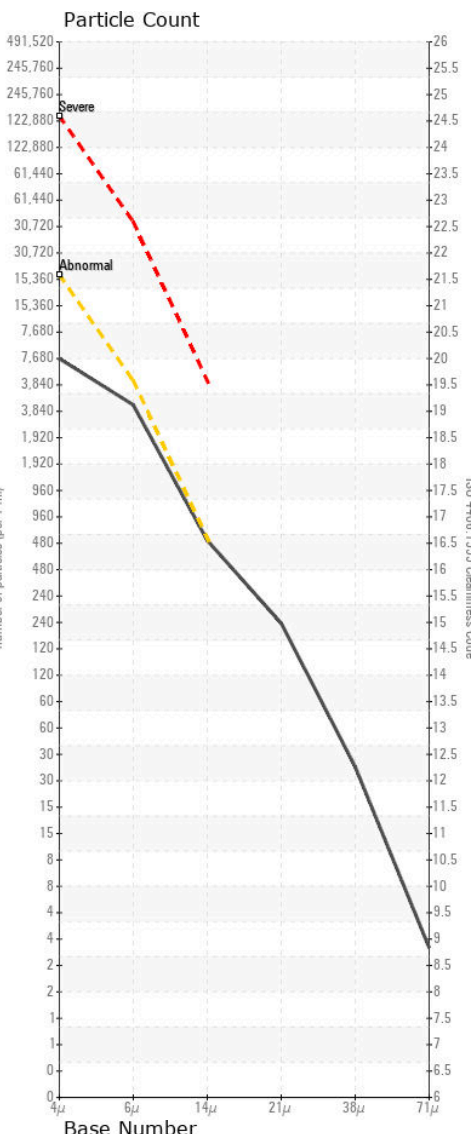
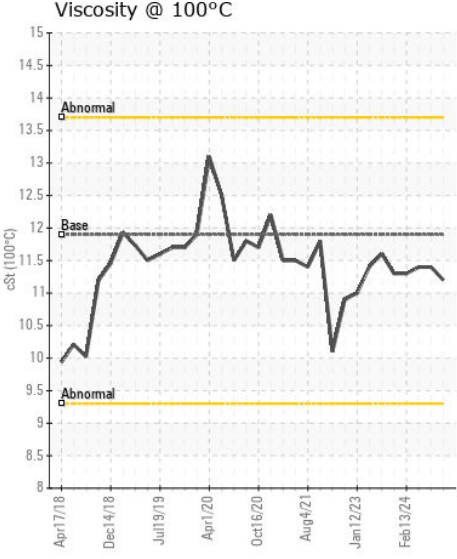
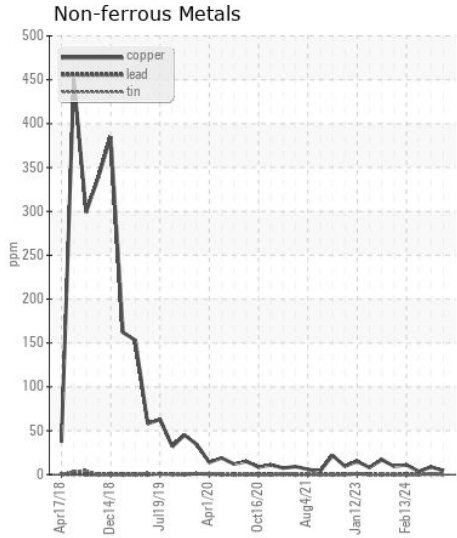
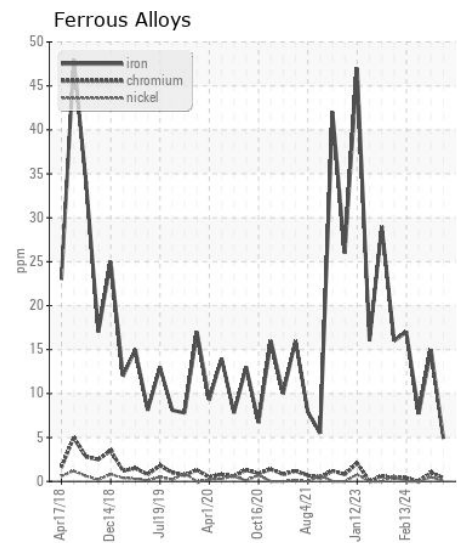
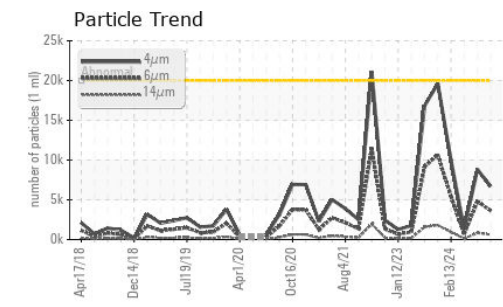
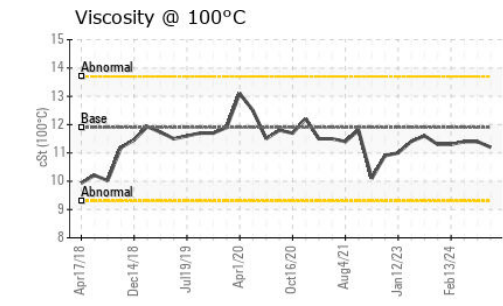
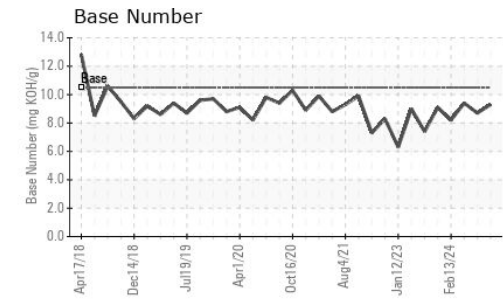
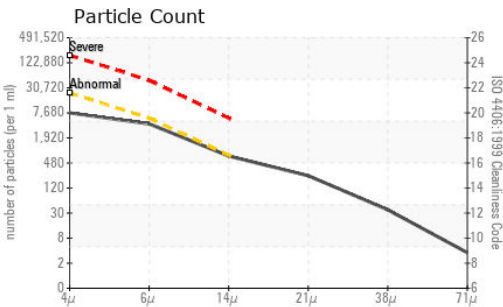
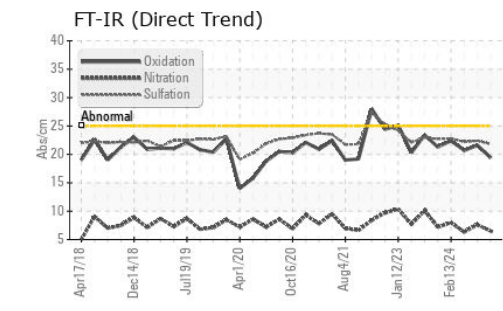
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	6	5
Potassium	ppm	ASTM D5185m	>20	0	5	0
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	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.6	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.4	22.2
Particles >4µm		ASTM D7647	>20000	6681	8822	1305
Particles >6µm		ASTM D7647	>5000	3640	4806	711
Particles >14µm		ASTM D7647	>640	619	818	121
Particles >21µm		ASTM D7647	>160	209	275	41
Particles >38µm		ASTM D7647	>40	32	43	6
Particles >71µm		ASTM D7647	>10	3	4	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	20/19/17	18/17/14
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		5	2	2
Boron	ppm	ASTM D5185m		52	51	56
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	50	43
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		475	553	499
Calcium	ppm	ASTM D5185m		1692	1807	1631
Phosphorus	ppm	ASTM D5185m		679	868	744
Zinc	ppm	ASTM D5185m		794	1020	874
Sulfur	ppm	ASTM D5185m		2438	2930	2691
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	21.6	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.3	8.7	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.4	11.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947915 **Received** : 05 Jul 2024
Lab Number : **06228412** **Tested** : 09 Jul 2024
Unique Number : 11111905 **Diagnosed** : 09 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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