



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8112 8112
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0939308	WC0918716	WC0902934
Sample Date		Client Info		16 May 2024	03 Apr 2024	09 Feb 2024
Machine Age	hrs	Client Info		11172	10914	10602
Oil Age	hrs	Client Info		258	312	317
Filter Age	hrs	Client Info		258	312	317
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	11	4	5
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	3	2	3
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

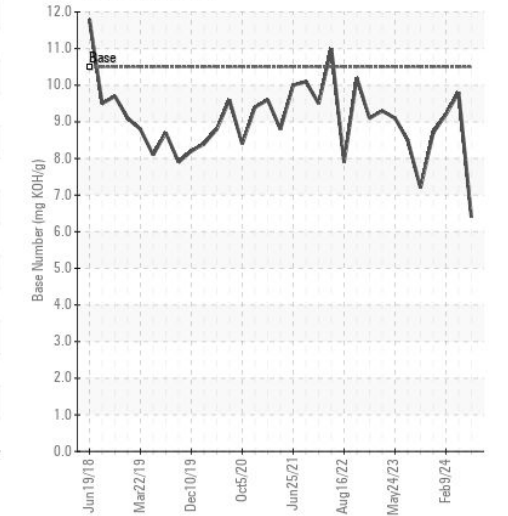
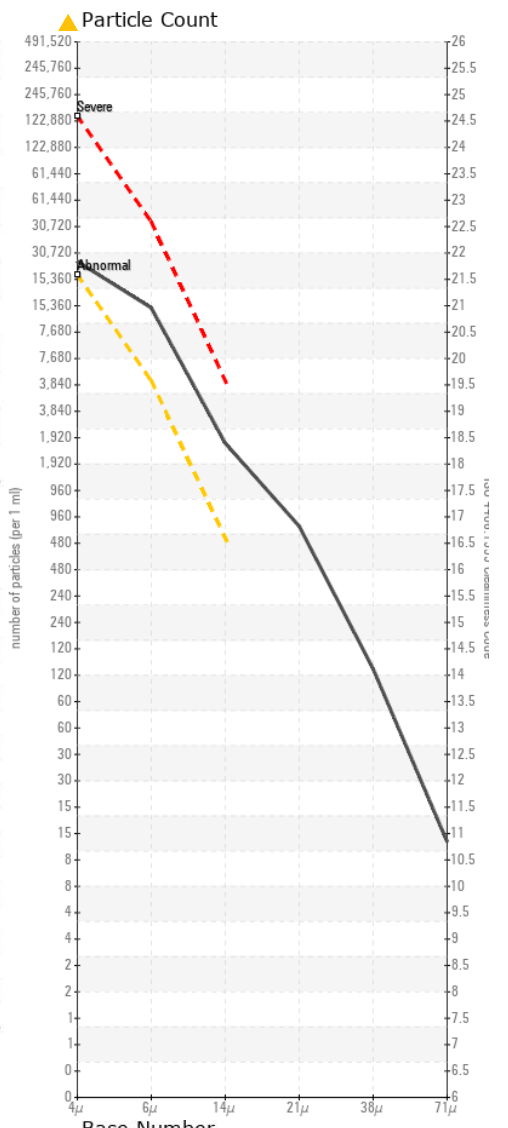
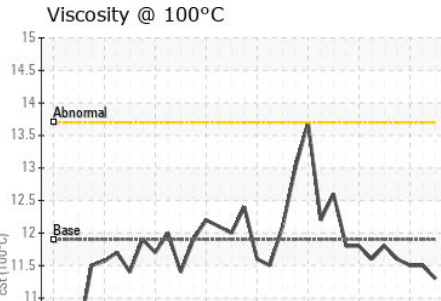
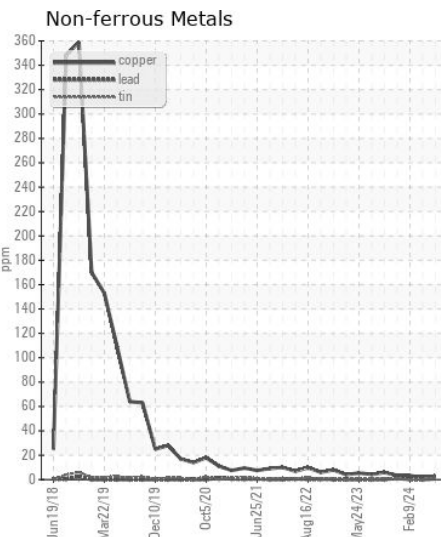
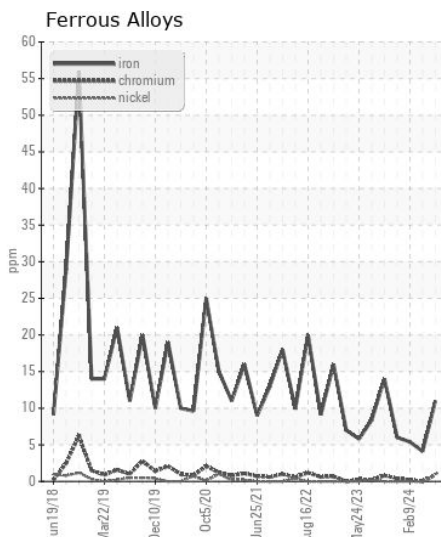
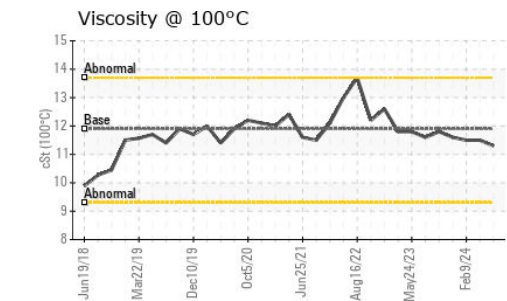
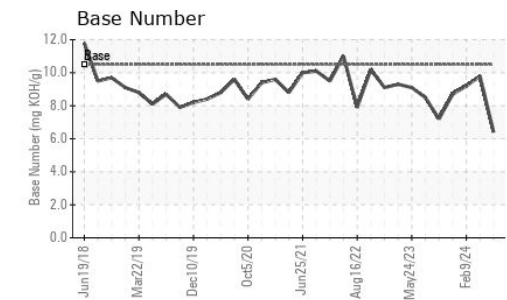
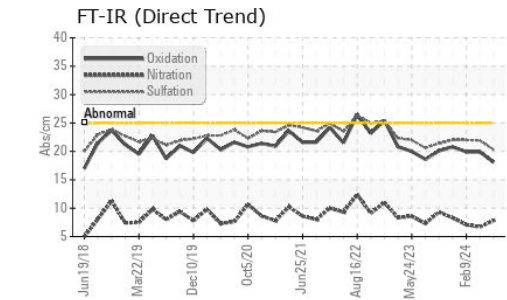
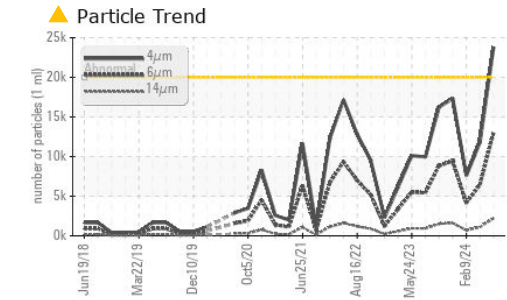
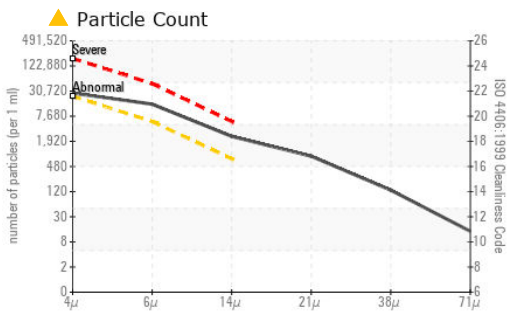
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	15	4	5
Potassium	ppm	ASTM D5185m	>20	3	<1	3
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	0.7	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.9	22.0
Particles >4µm		ASTM D7647	>20000	▲ 23820	11788	7603
Particles >6µm		ASTM D7647	>5000	▲ 12976	6422	4142
Particles >14µm		ASTM D7647	>640	▲ 2208	1093	705
Particles >21µm		ASTM D7647	>160	▲ 744	368	237
Particles >38µm		ASTM D7647	>40	▲ 115	57	37
Particles >71µm		ASTM D7647	>10	▲ 12	6	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	21/20/17	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 suitable for further service.

Sodium	ppm	ASTM D5185m		6	1	0
Boron	ppm	ASTM D5185m		44	41	47
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	47	55
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		504	548	507
Calcium	ppm	ASTM D5185m		1626	1847	1599
Phosphorus	ppm	ASTM D5185m		828	820	717
Zinc	ppm	ASTM D5185m		923	1000	922
Sulfur	ppm	ASTM D5185m		2931	3328	2330
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	19.9	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.4	9.8	9.2
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.5	11.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939308
Lab Number : 06185995
Unique Number : 11042747
Test Package : CONST (Additional Tests: PrtCount, TBN)

Received : 21 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Jonathan Hester

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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