



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8038 8038
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0939273	WC0919090	WC0861845
Sample Date		Client Info		16 May 2024	17 Apr 2024	14 Feb 2024
Machine Age	hrs	Client Info		5487	5288	4875
Oil Age	hrs	Client Info		199	381	255
Filter Age	hrs	Client Info		199	381	255
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	26	14
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	11	▲ 23	13
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	4	3
Tin	ppm	ASTM D5185m	>15	1	<1	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

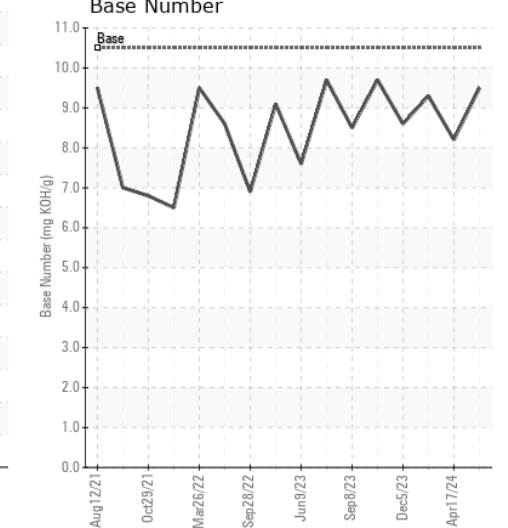
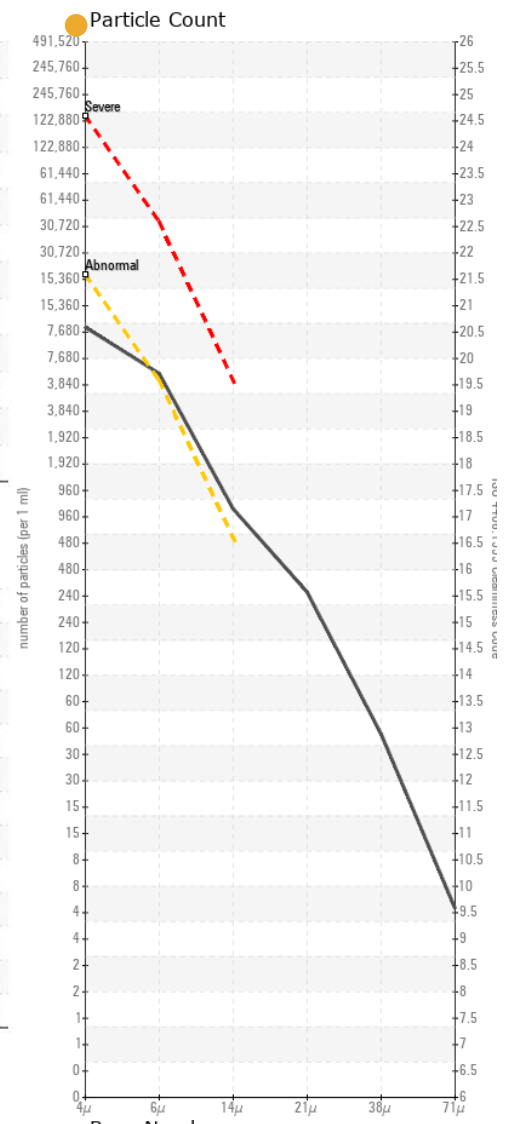
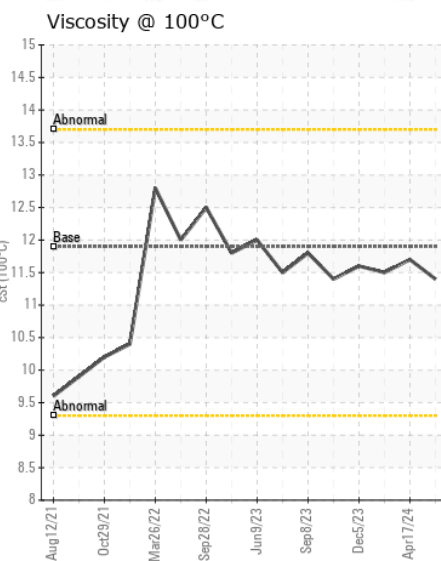
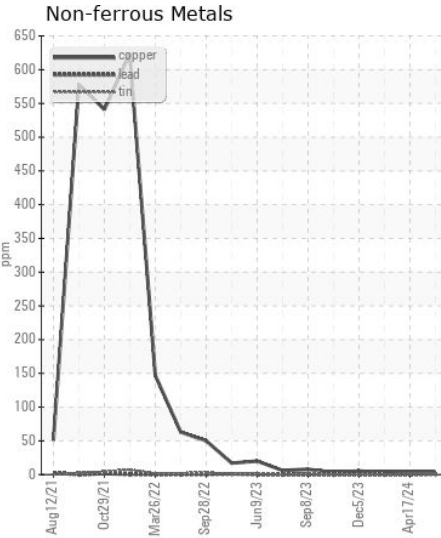
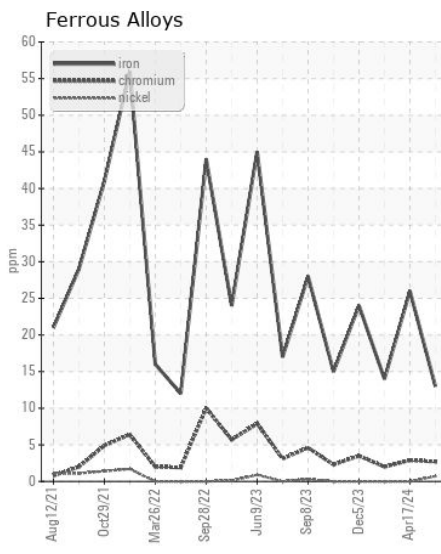
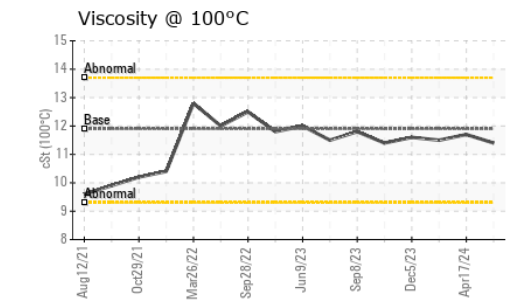
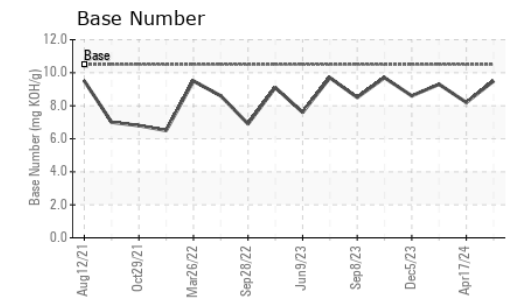
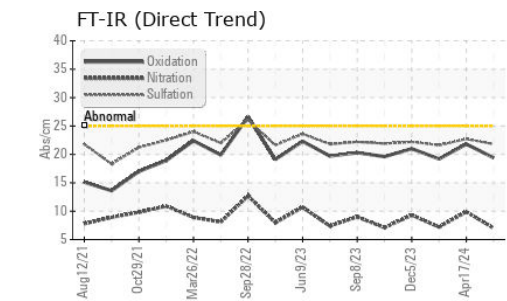
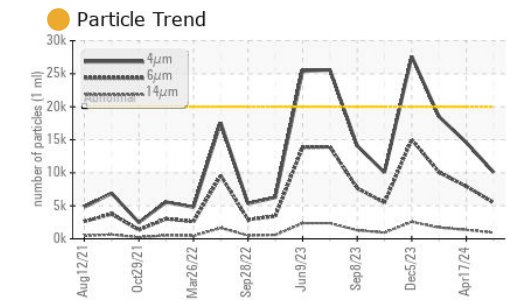
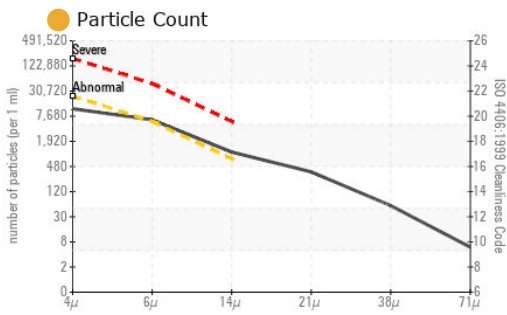
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	6
Potassium	ppm	ASTM D5185m	>20	6	12	6
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	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.9	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.7	21.6
Particles >4µm		ASTM D7647	>20000	10066	14589	18487
Particles >6µm		ASTM D7647	>5000	● 5483	● 7948	▲ 10071
Particles >14µm		ASTM D7647	>640	● 933	● 1353	▲ 1714
Particles >21µm		ASTM D7647	>160	● 314	● 456	▲ 577
Particles >38µm		ASTM D7647	>40	● 49	● 70	▲ 89
Particles >71µm		ASTM D7647	>10	5	7	9
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 21/20/17	● 21/20/18	▲ 21/21/18
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		4	3	2
Boron	ppm	ASTM D5185m		56	26	41
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	51	47
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		627	515	504
Calcium	ppm	ASTM D5185m		2000	1764	1648
Phosphorus	ppm	ASTM D5185m		994	794	737
Zinc	ppm	ASTM D5185m		1125	927	885
Sulfur	ppm	ASTM D5185m		3640	2729	2346
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	21.8	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.5	8.2	9.3
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.7	11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939273 **Received** : 21 May 2024
Lab Number : 06185990 **Tested** : 23 May 2024
Unique Number : 11042742 **Diagnosed** : 23 May 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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)