



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6454 6454
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		WC0902903	WC0885960	WC0885801
Sample Date		Client Info		23 Feb 2024	15 Jan 2024	22 Dec 2023
Machine Age	hrs	Client Info		7605	9039	7308
Oil Age	hrs	Client Info		309	362	404
Filter Age	hrs	Client Info		309	362	404
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	9	8	5
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	1
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	6	11	<1
Tin	ppm	ASTM D5185m	>15	<1	<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

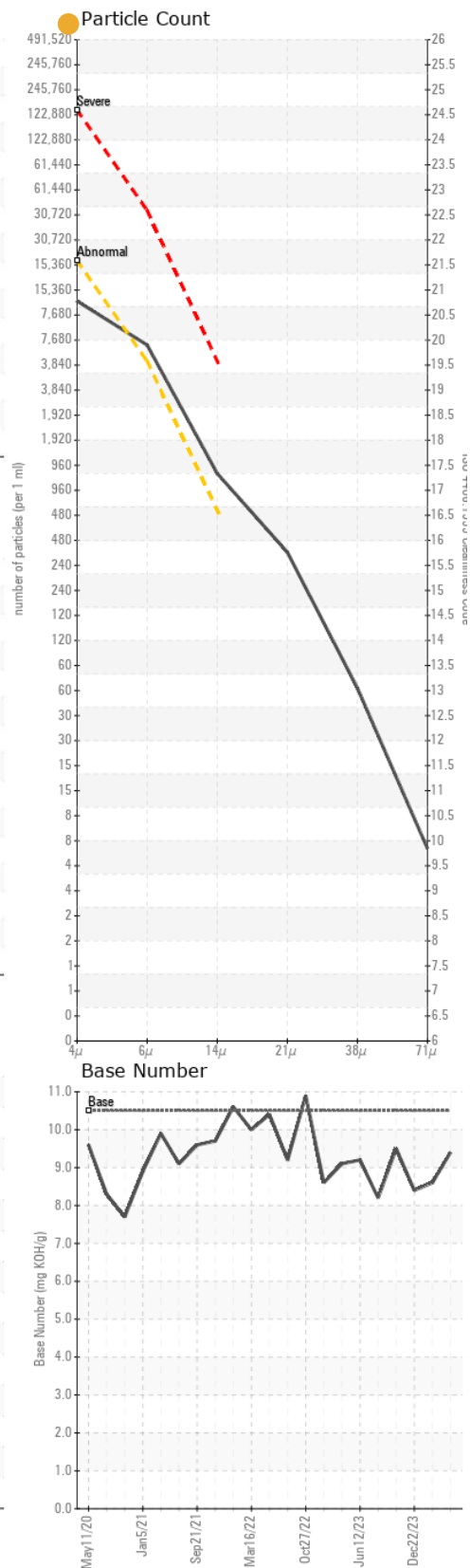
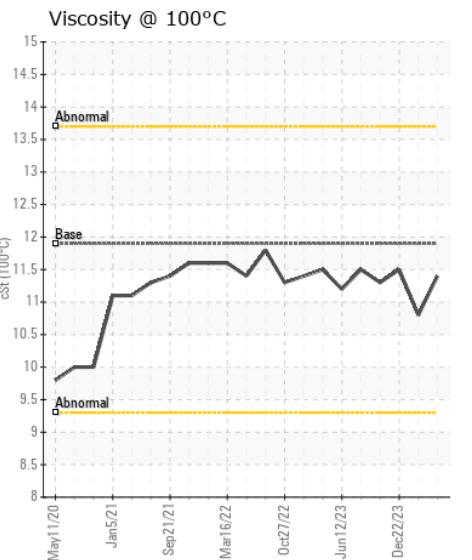
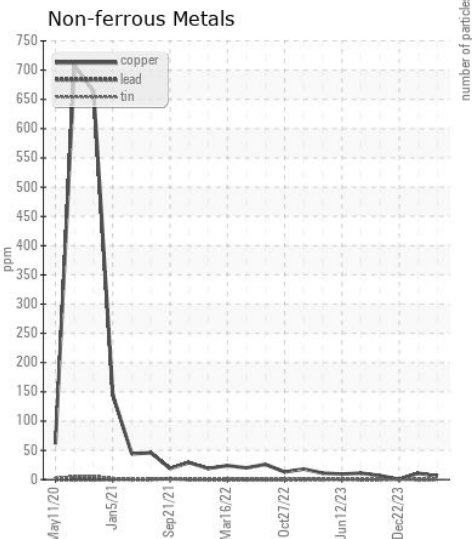
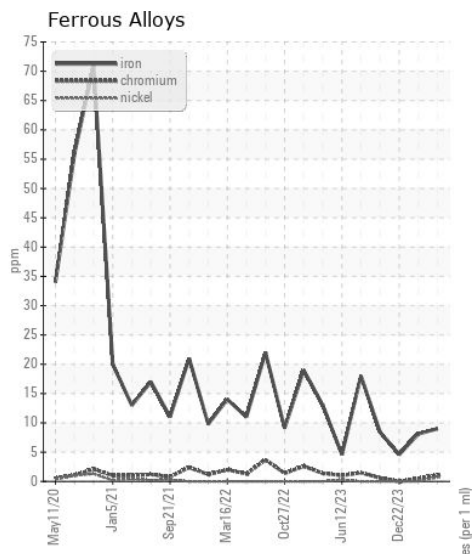
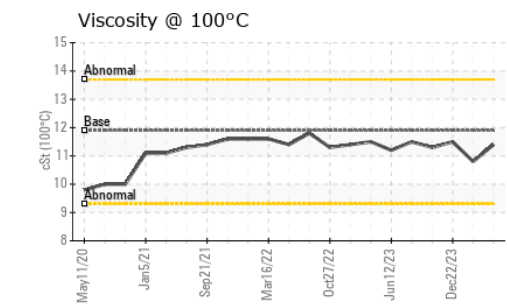
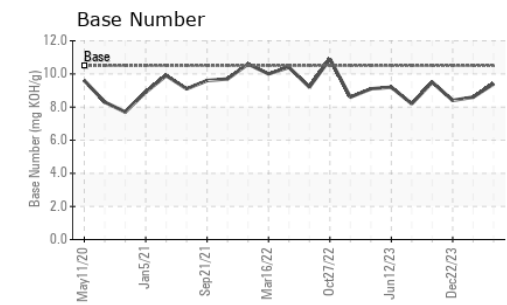
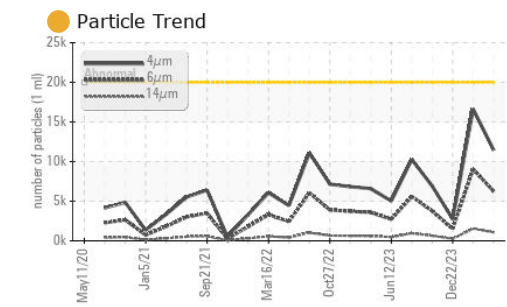
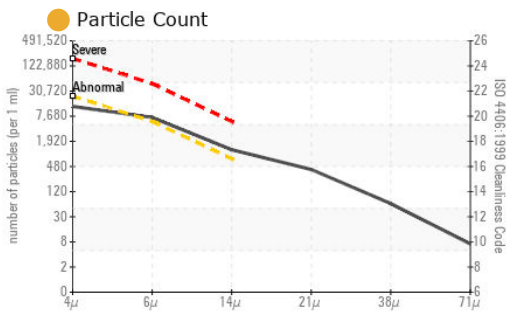
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	7	1
Potassium	ppm	ASTM D5185m	>20	6	4	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	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.9	22.1
Particles >4µm		ASTM D7647	>20000	11457	16616	2740
Particles >6µm		ASTM D7647	>5000	6242	9052	1493
Particles >14µm		ASTM D7647	>640	1062	1541	254
Particles >21µm		ASTM D7647	>160	358	519	86
Particles >38µm		ASTM D7647	>40	55	80	13
Particles >71µm		ASTM D7647	>10	6	8	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	21/20/18	19/18/15
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	2	3
Boron	ppm	ASTM D5185m		49	39	<1
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		41	53	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		444	522	9
Calcium	ppm	ASTM D5185m		1459	1641	1686
Phosphorus	ppm	ASTM D5185m		695	743	315
Zinc	ppm	ASTM D5185m		858	929	404
Sulfur	ppm	ASTM D5185m		2638	2388	3087
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	20.9	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	8.6	8.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	10.8	11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902903
Lab Number : 06101497
Unique Number : 10899727
Test Package : CONST (Additional Tests: PrtCount, TBN)

Received : 27 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 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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