



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6452 6452
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861896	WC0867186	WC0852421
Sample Date		Client Info		11 Jan 2024	23 Oct 2023	25 Aug 2023
Machine Age	hrs	Client Info		7401	7036	6710
Oil Age	hrs	Client Info		369	326	344
Filter Age	hrs	Client Info		369	326	344
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	6	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	9	14	12
Tin	ppm	ASTM D5185m	>15	<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

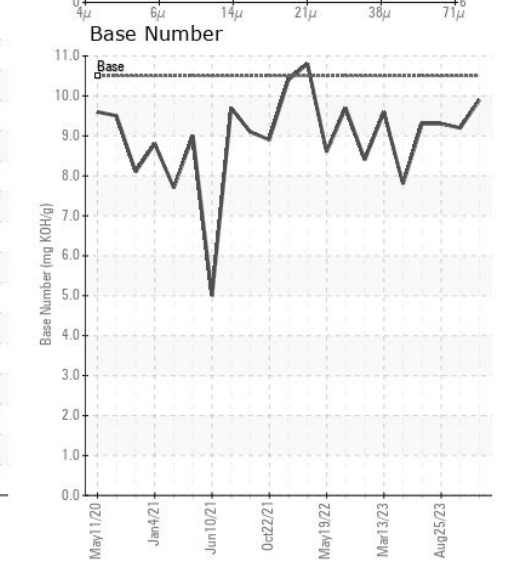
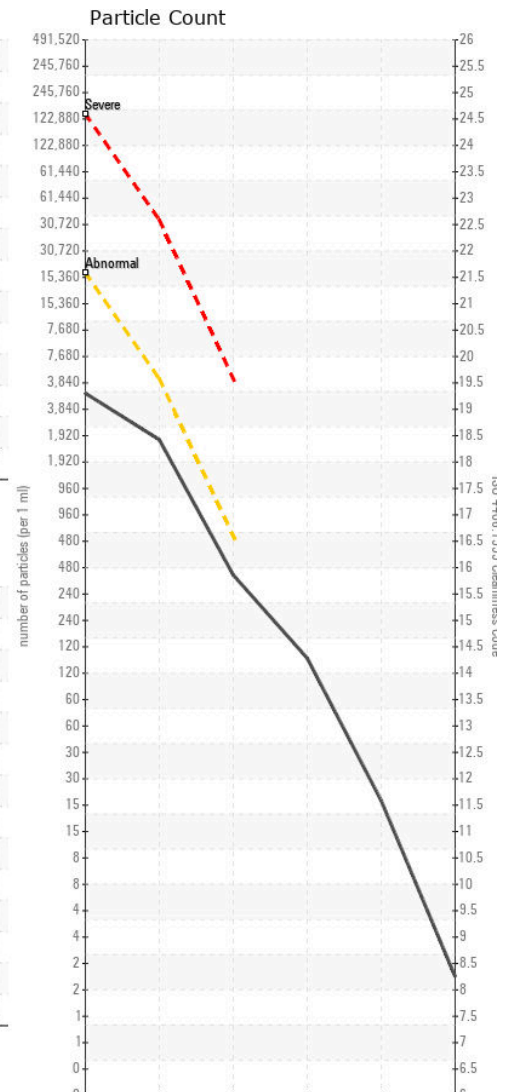
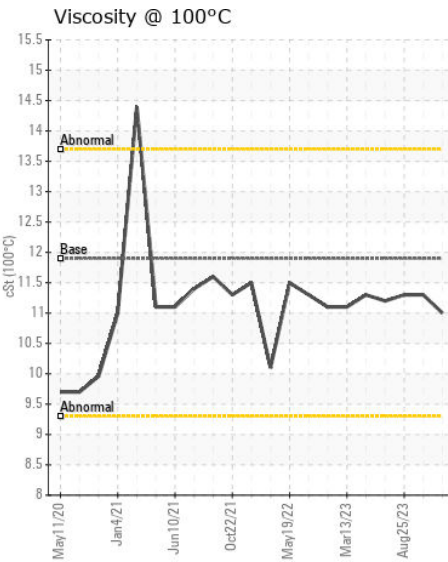
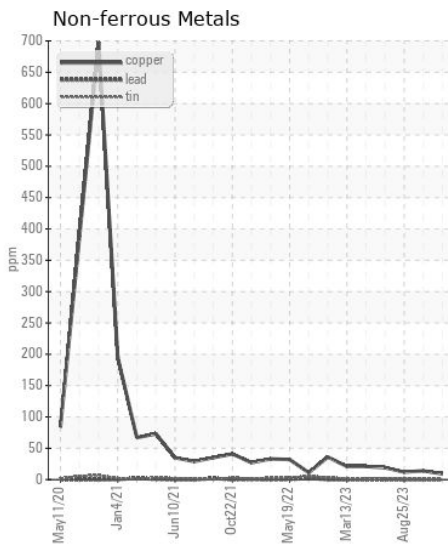
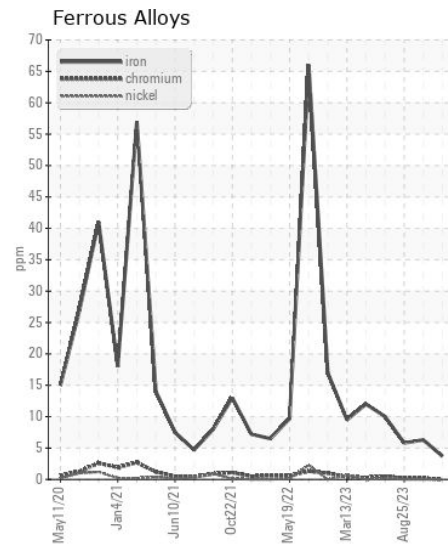
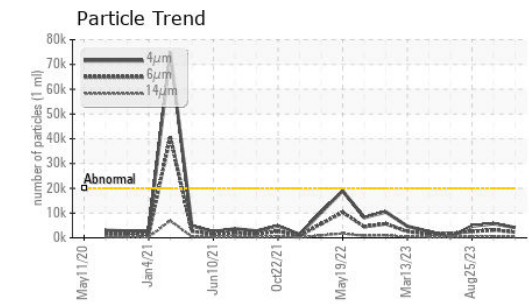
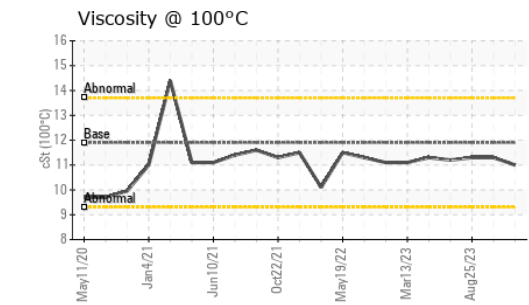
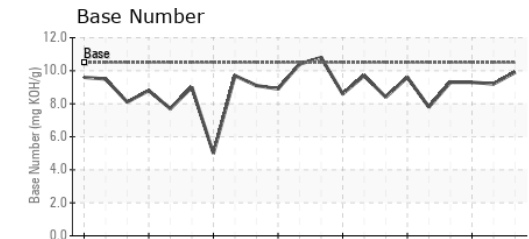
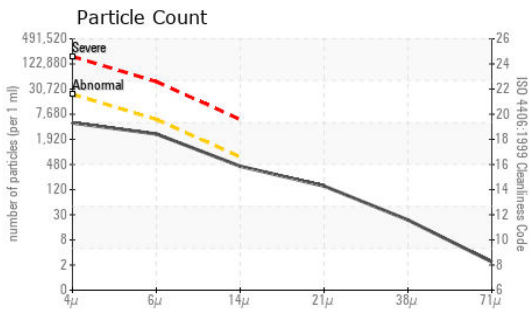
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	5	6	4
Potassium	ppm	ASTM D5185m	>20	2	<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	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.3	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.9	20.9
Particles >4µm		ASTM D7647	>20000	4132	5742	4733
Particles >6µm		ASTM D7647	>5000	2251	3128	2578
Particles >14µm		ASTM D7647	>640	383	532	439
Particles >21µm		ASTM D7647	>160	129	179	148
Particles >38µm		ASTM D7647	>40	20	28	23
Particles >71µm		ASTM D7647	>10	2	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	20/19/16	19/19/16
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	3	2
Boron	ppm	ASTM D5185m		49	36	55
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	46	49
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		495	526	540
Calcium	ppm	ASTM D5185m		1529	1624	1699
Phosphorus	ppm	ASTM D5185m		780	589	786
Zinc	ppm	ASTM D5185m		880	917	967
Sulfur	ppm	ASTM D5185m		2388	2420	3223
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	20.7	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.9	9.2	9.3
Visc @ 100°C	cSt	ASTM D445	11.9	11.0	11.3	11.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861896 **Received** : 18 Jan 2024
Lab Number : 06064163 **Diagnosed** : 22 Jan 2024
Unique Number : 10835545 **Diagnostician** : Sean Felton
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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