



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6435 6435
 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		WC0902772	WC0861590	WC0861987
Sample Date		Client Info		19 Feb 2024	12 Dec 2023	10 Oct 2023
Machine Age	hrs	Client Info		9819	9466	9114
Oil Age	hrs	Client Info		353	353	227
Filter Age	hrs	Client Info		353	353	227
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	5	8	5
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	2	3	0
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>180	2	4	2
Tin	ppm	ASTM D5185m	>8	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

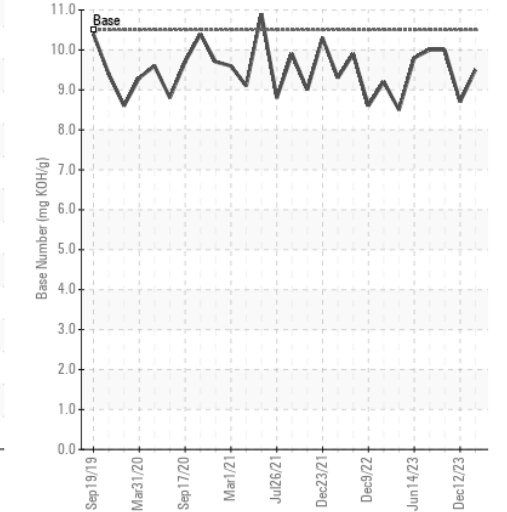
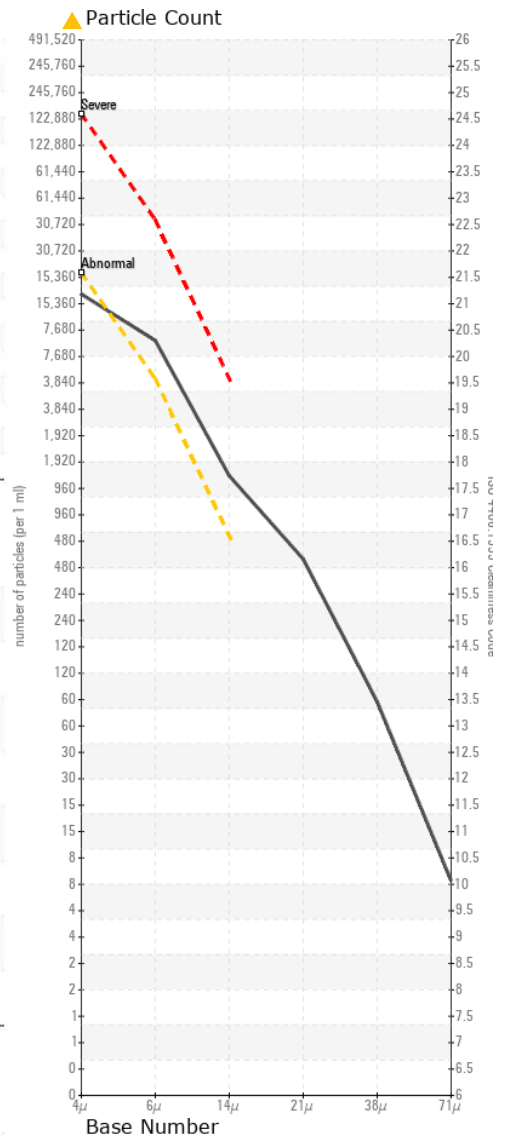
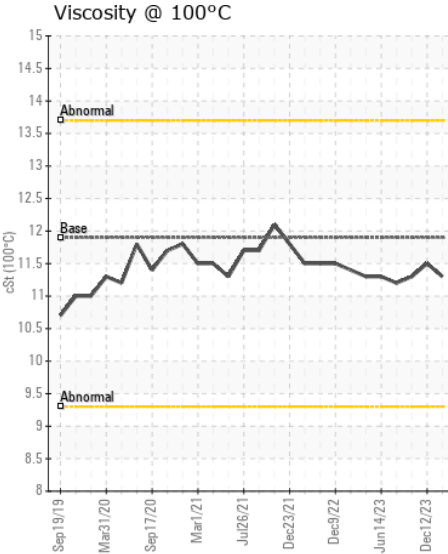
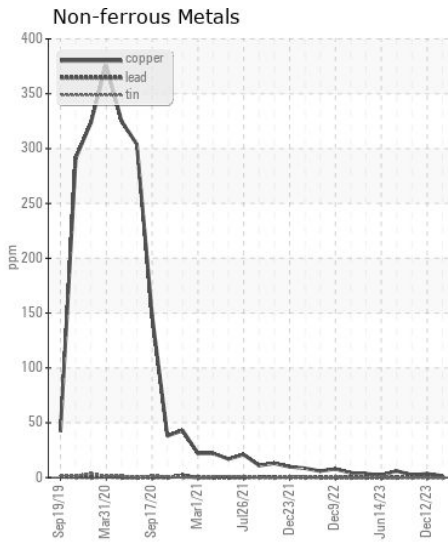
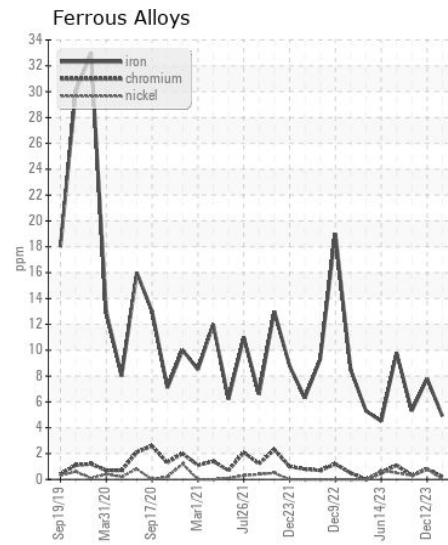
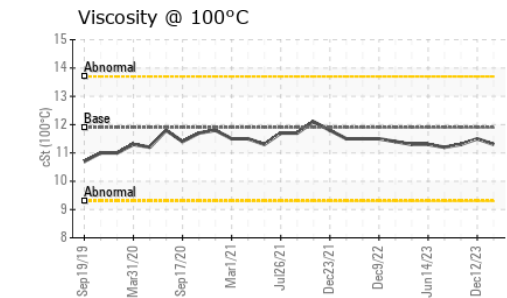
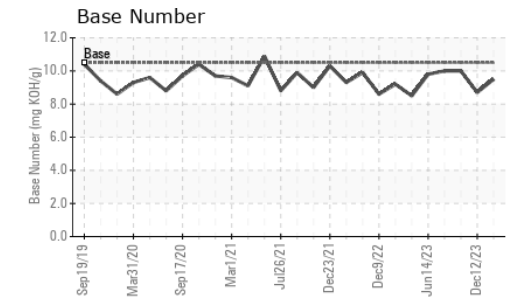
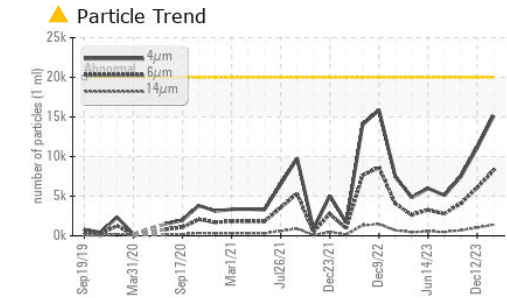
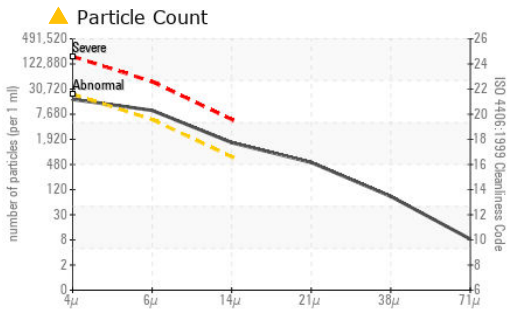
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	6	9	8
Potassium	ppm	ASTM D5185m	>20	<1	3	2
Fuel		WC Method	>3.0	<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	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.3	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.9	21.4
Particles >4µm		ASTM D7647	>20000	15129	11144	7473
Particles >6µm		ASTM D7647	>5000	8241	6071	4071
Particles >14µm		ASTM D7647	>640	1403	1033	693
Particles >21µm		ASTM D7647	>160	472	348	233
Particles >38µm		ASTM D7647	>40	73	54	36
Particles >71µm		ASTM D7647	>10	7	5	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/18	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		2	19	0
Boron	ppm	ASTM D5185m		47	40	51
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		43	44	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		485	426	451
Calcium	ppm	ASTM D5185m		1533	1629	1515
Phosphorus	ppm	ASTM D5185m		702	695	699
Zinc	ppm	ASTM D5185m		855	880	845
Sulfur	ppm	ASTM D5185m		2202	1802	2477
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	20.9	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.5	8.7	10.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.5	11.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902772
Lab Number : 06097597
Unique Number : 10890450
Test Package : CONST (Additional Tests: PrtCount, TBN)

Received : 22 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 24 Feb 2024 - Don Baldrige

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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