



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6428 6428
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885926	WC0867085	WC0834961
Sample Date		Client Info		11 Jan 2024	07 Nov 2023	21 Jul 2023
Machine Age	hrs	Client Info		12009	11673	11151
Oil Age	hrs	Client Info		326	522	542
Filter Age	hrs	Client Info		326	522	542
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	21	48
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	10
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	2	6
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

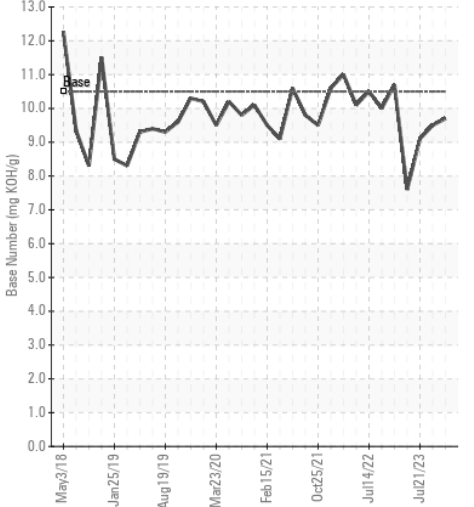
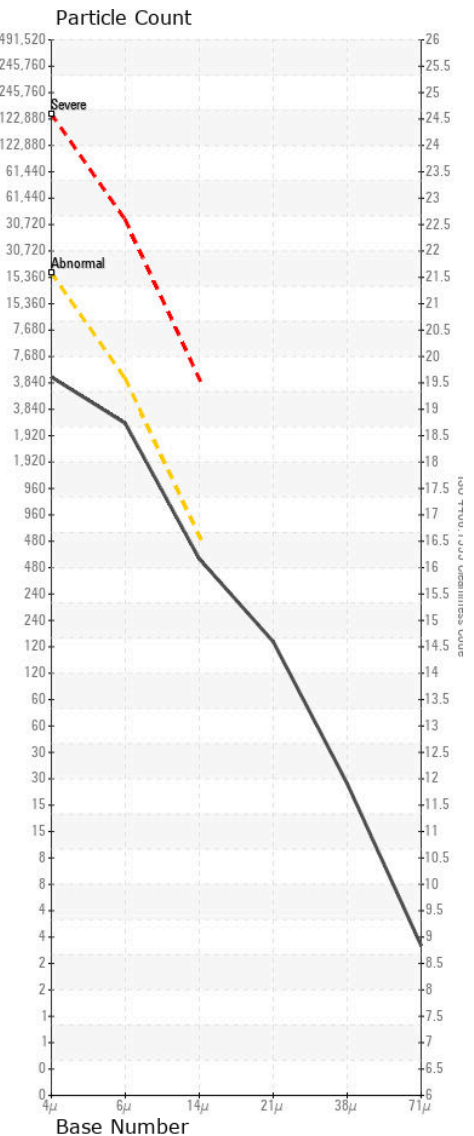
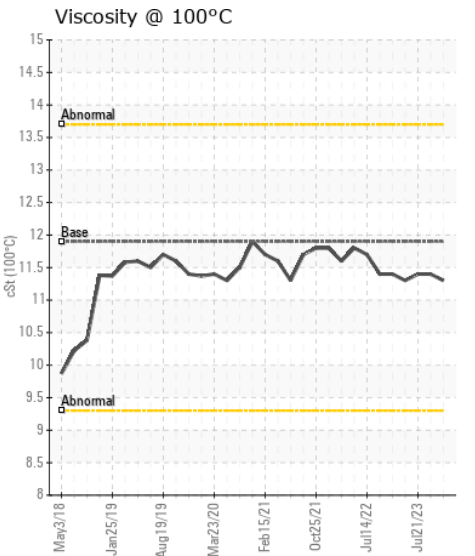
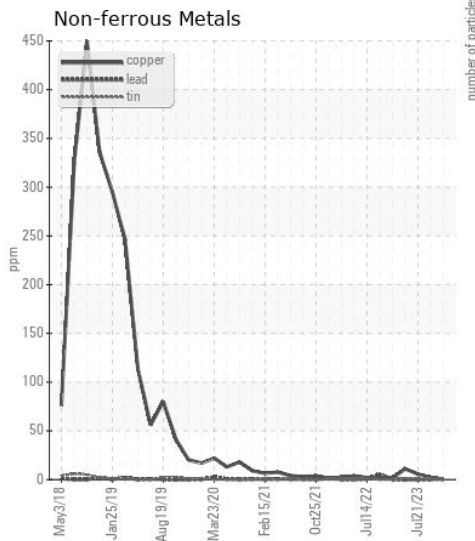
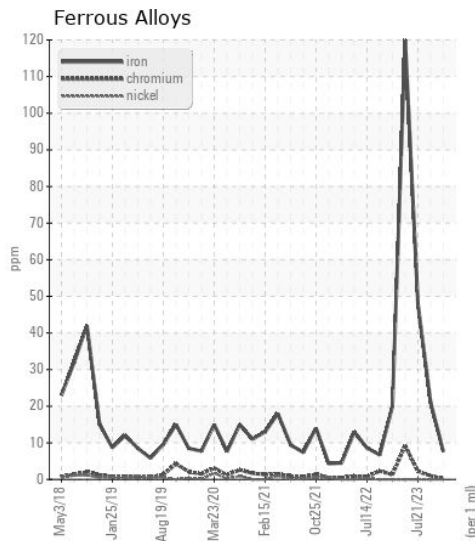
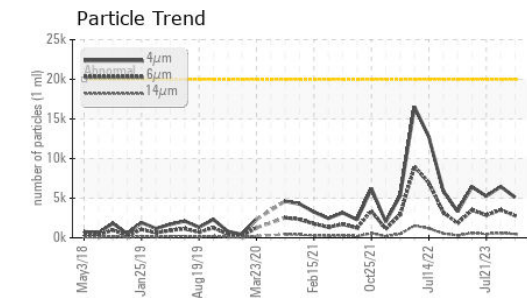
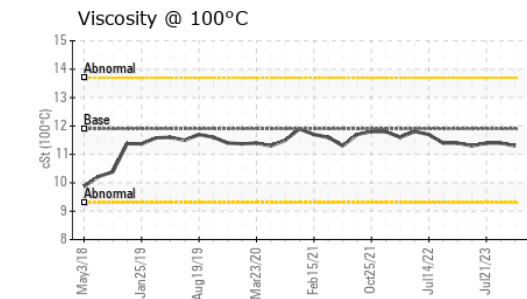
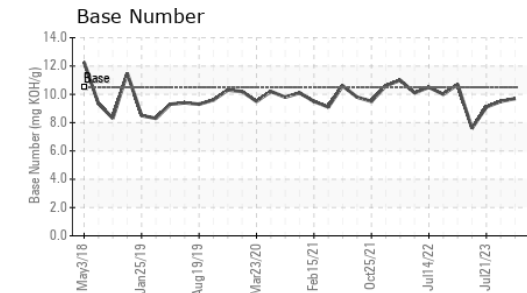
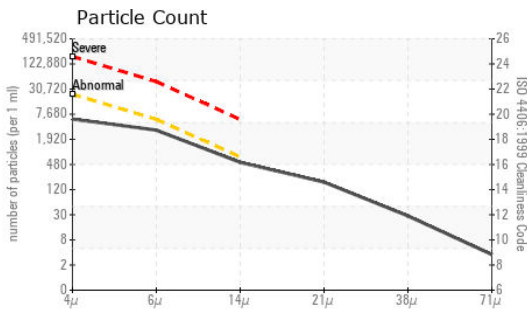
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	5	9	7
Potassium	ppm	ASTM D5185m	>20	<1	2	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	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.9	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.2	22.2
Particles >4µm		ASTM D7647	>20000	5115	6455	5255
Particles >6µm		ASTM D7647	>5000	2787	3517	2863
Particles >14µm		ASTM D7647	>640	474	598	487
Particles >21µm		ASTM D7647	>160	160	202	164
Particles >38µm		ASTM D7647	>40	25	31	25
Particles >71µm		ASTM D7647	>10	3	3	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	20/19/16	20/19/16
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	2	<1
Boron	ppm	ASTM D5185m		49	39	32
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		45	44	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		511	519	498
Calcium	ppm	ASTM D5185m		1590	1680	1676
Phosphorus	ppm	ASTM D5185m		815	749	751
Zinc	ppm	ASTM D5185m		914	951	932
Sulfur	ppm	ASTM D5185m		2498	2468	2821
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	21.1	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.7	9.5	9.1
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.4	11.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885926 **Received** : 18 Jan 2024
Lab Number : 06064162 **Diagnosed** : 22 Jan 2024
Unique Number : 10835544 **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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