



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8049 8049
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861719	WC0861733	WC0862140
Sample Date		Client Info		08 Jan 2024	21 Nov 2023	28 Sep 2023
Machine Age	hrs	Client Info		1855	1638	1253
Oil Age	hrs	Client Info		217	385	241
Filter Age	hrs	Client Info		217	385	241
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	9	19	8
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	7	3
Lead	ppm	ASTM D5185m	>40	<1	4	<1
Copper	ppm	ASTM D5185m	>330	106	219	71
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

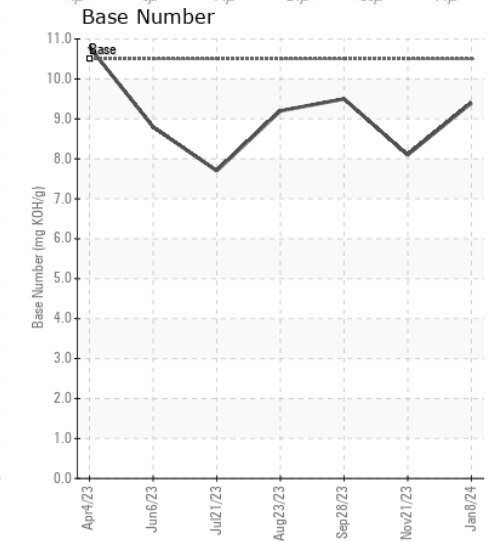
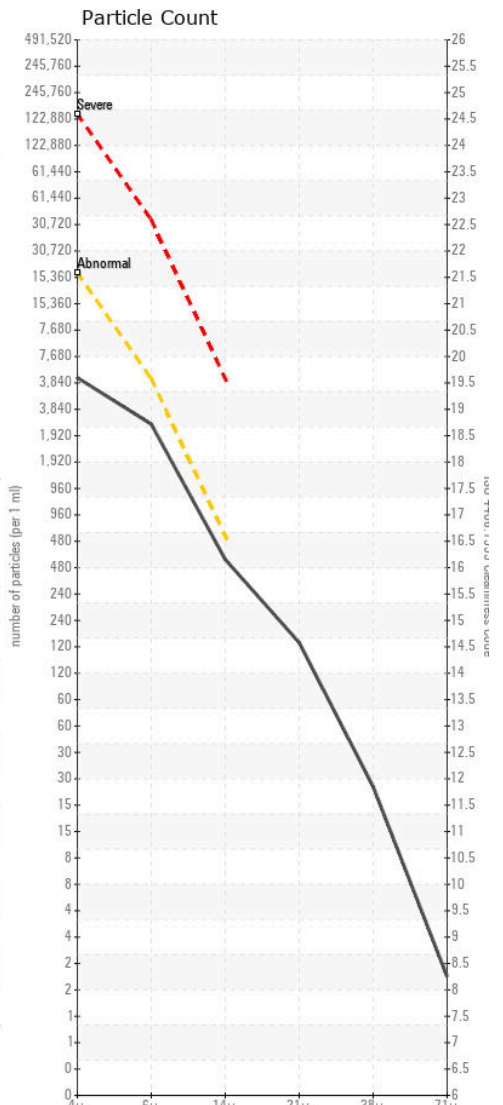
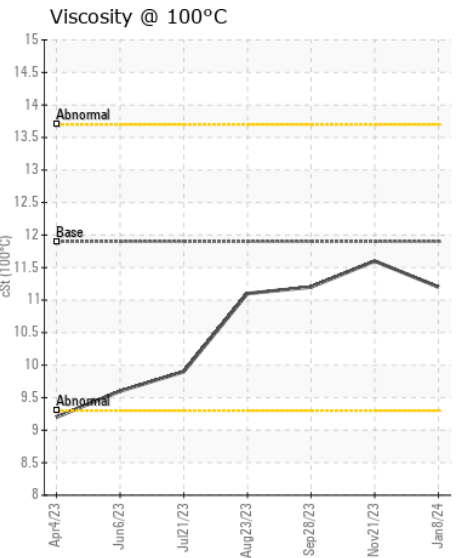
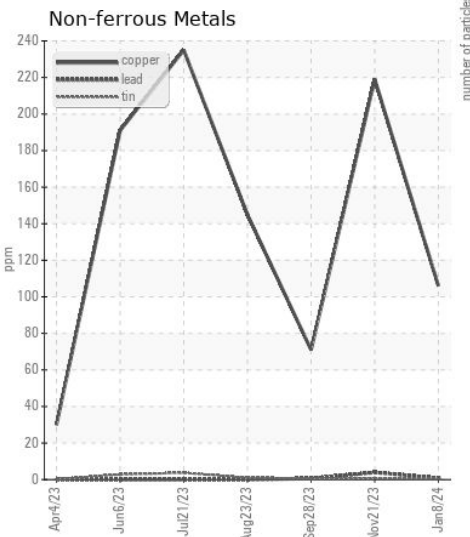
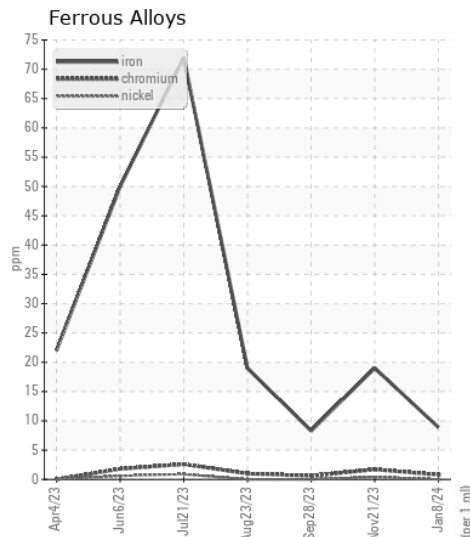
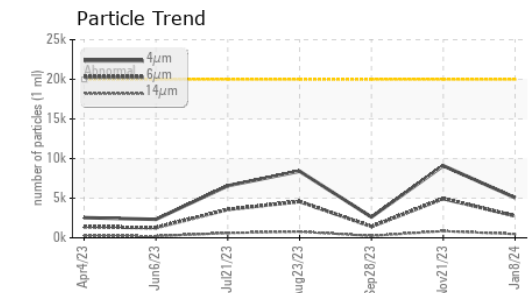
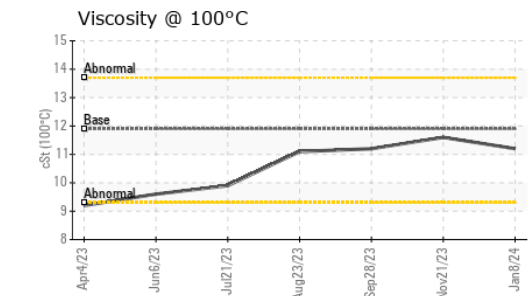
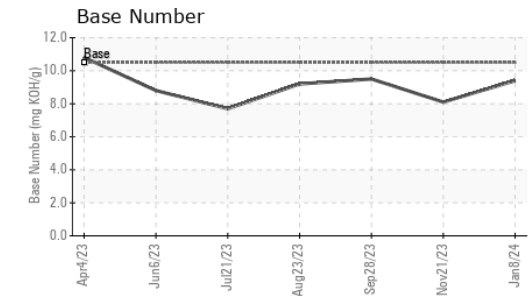
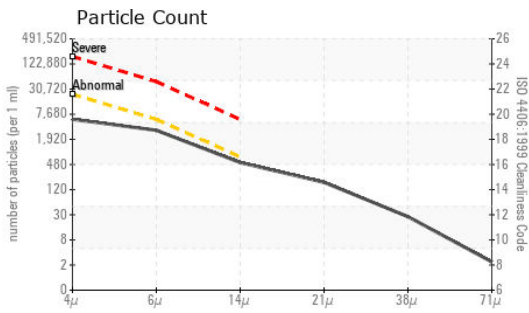
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	9	6
Potassium	ppm	ASTM D5185m	>20	7	21	11
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	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	8.7	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.0	22.1
Particles >4µm		ASTM D7647	>20000	5063	9100	2619
Particles >6µm		ASTM D7647	>5000	2758	4957	1426
Particles >14µm		ASTM D7647	>640	469	▲ 844	243
Particles >21µm		ASTM D7647	>160	158	▲ 284	82
Particles >38µm		ASTM D7647	>40	24	▲ 44	13
Particles >71µm		ASTM D7647	>10	2	4	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	▲ 20/19/17	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 suitable for further service.

Sodium	ppm	ASTM D5185m		2	29	2
Boron	ppm	ASTM D5185m		52	30	48
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	43	45
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		503	510	505
Calcium	ppm	ASTM D5185m		1643	1682	1639
Phosphorus	ppm	ASTM D5185m		773	661	725
Zinc	ppm	ASTM D5185m		912	895	904
Sulfur	ppm	ASTM D5185m		2329	1965	2415
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	22.2	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	8.1	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.6	11.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861719 **Received** : 10 Jan 2024
Lab Number : 06056566 **Diagnosed** : 11 Jan 2024
Unique Number : 10822515 **Diagnostician** : Don Baldrige
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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