



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area
Mobile Fleet
 Machine Id
8023 8023
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861828	WC0885838	WC0861954
Sample Date		Client Info		15 Jan 2024	04 Dec 2023	11 Oct 2023
Machine Age	hrs	Client Info		16258	16047	15664
Oil Age	hrs	Client Info		217	372	356
Filter Age	hrs	Client Info		217	372	356
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	21	30
Chromium	ppm	ASTM D5185m	>20	<1	1	3
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	10	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	6	9
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

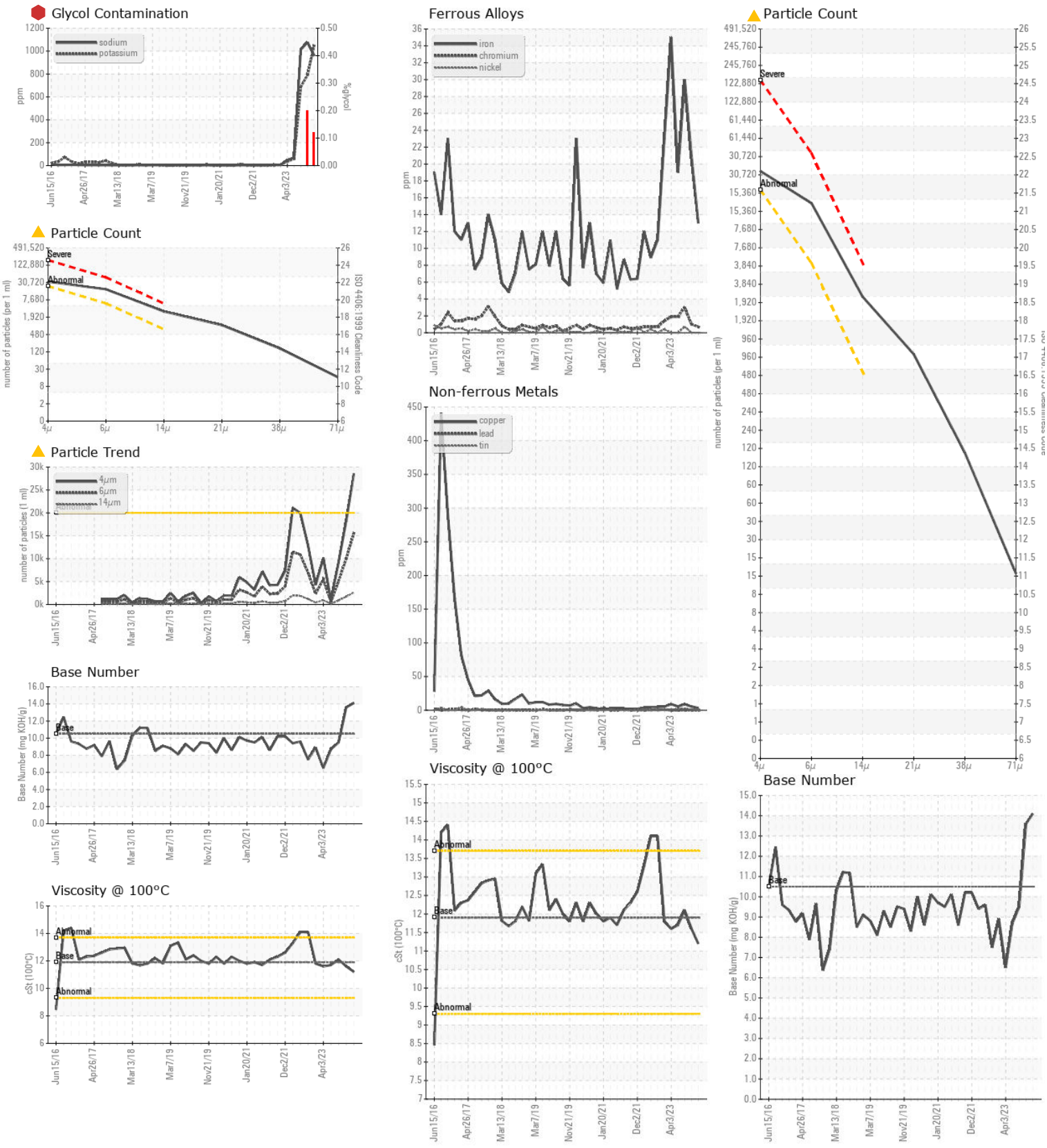
There is a high amount of particulates present in the oil. Sodium and/or potassium levels are high. Test for glycol is positive.

Silicon	ppm	ASTM D5185m	>25	9	16	17
Potassium	ppm	ASTM D5185m	>20	1056	791	687
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.12	0.20	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.3	11.3	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.3	22.9
Particles >4µm		ASTM D7647	>20000	28526	18243	9291
Particles >6µm		ASTM D7647	>5000	15540	9938	5062
Particles >14µm		ASTM D7647	>640	2645	1691	861
Particles >21µm		ASTM D7647	>160	891	570	290
Particles >38µm		ASTM D7647	>40	138	88	45
Particles >71µm		ASTM D7647	>10	14	9	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	22/21/19	21/20/18	20/20/17
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		960	1076	1013
Boron	ppm	ASTM D5185m		13	15	10
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		206	182	131
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		496	489	403
Calcium	ppm	ASTM D5185m		1567	1582	1472
Phosphorus	ppm	ASTM D5185m		734	722	569
Zinc	ppm	ASTM D5185m		909	893	787
Sulfur	ppm	ASTM D5185m		2528	2474	2237
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	21.5	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	14.1	13.6	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	11.6	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861828
Lab Number : 06065479
Unique Number : 10836861
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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)