



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6463 6463
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861720	WC0867099	WC0862010
Sample Date		Client Info		08 Jan 2024	29 Nov 2023	06 Oct 2023
Machine Age	hrs	Client Info		1530	1326	965
Oil Age	hrs	Client Info		205	376	327
Filter Age	hrs	Client Info		205	376	327
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	37	16
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	8	43	29
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	75	311	226
Tin	ppm	ASTM D5185m	>15	<1	1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

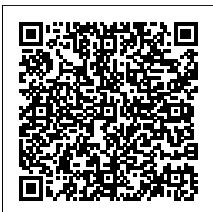
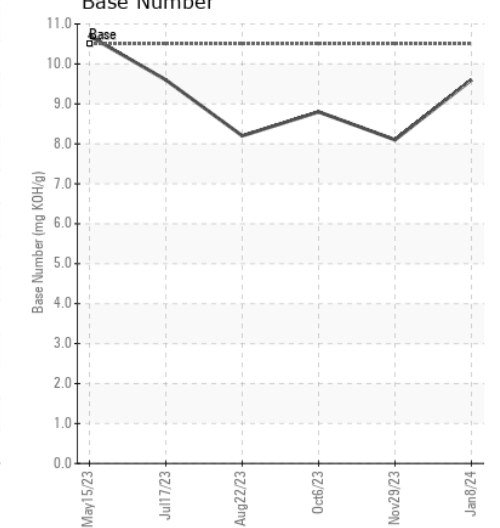
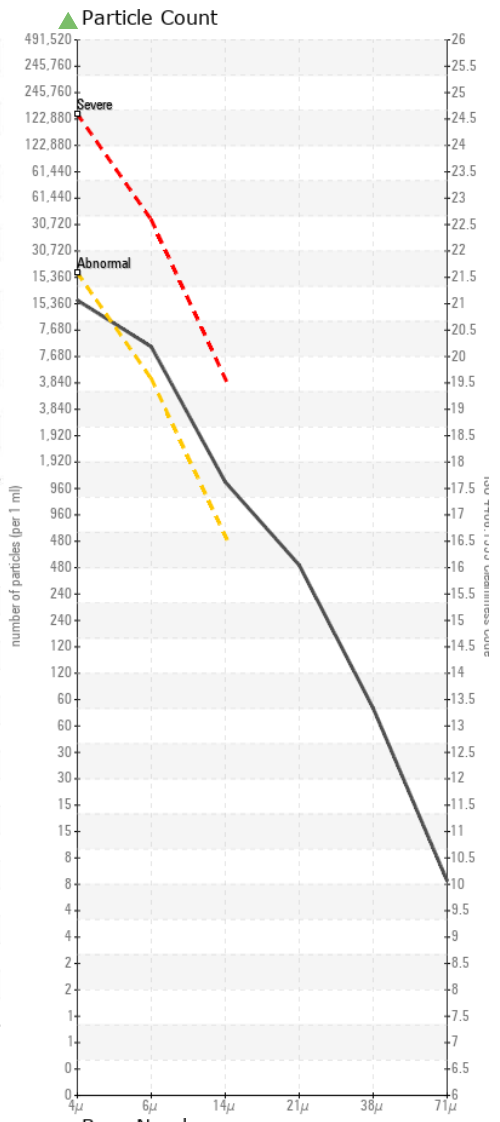
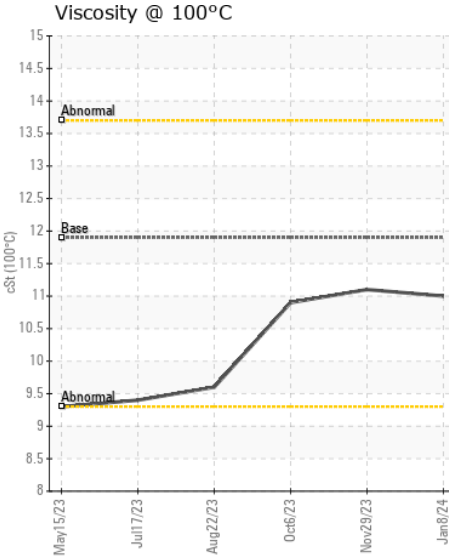
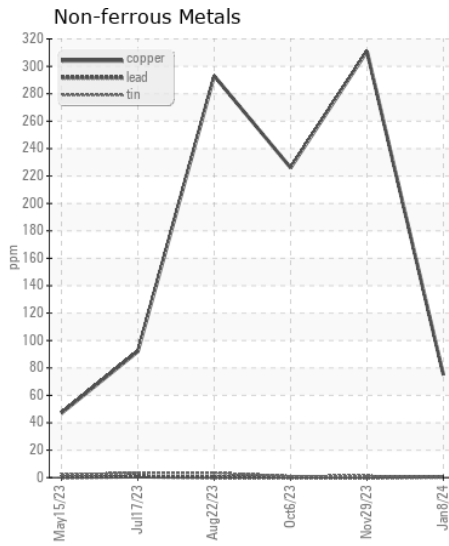
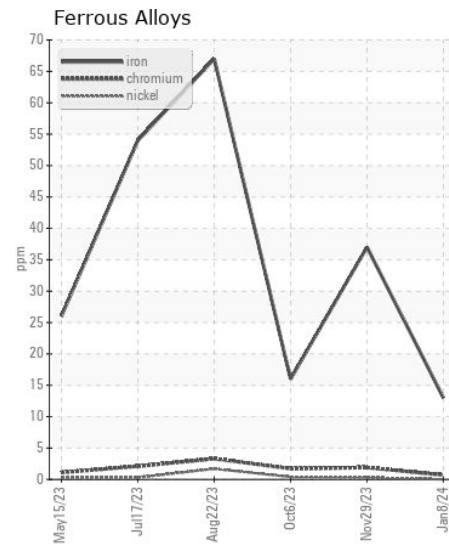
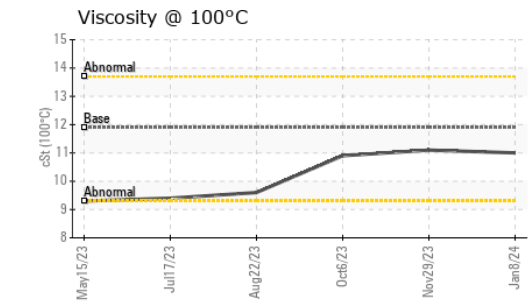
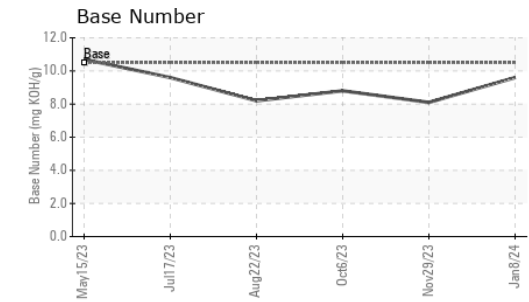
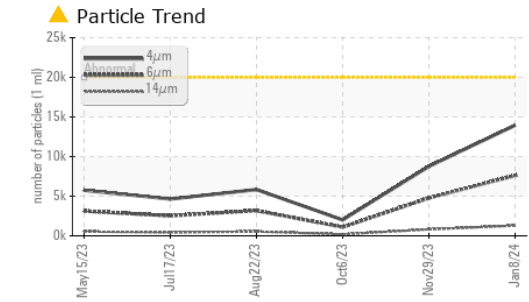
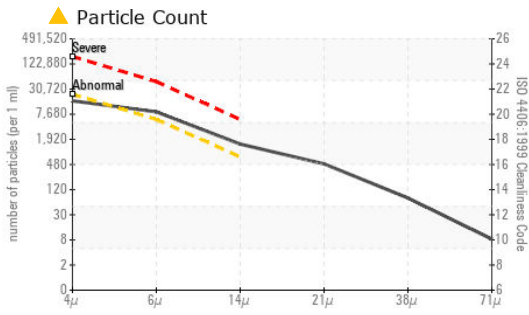
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	8	7
Potassium	ppm	ASTM D5185m	>20	19	103	64
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	6.5	9.1	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.9	21.5
Particles >4µm		ASTM D7647	>20000	13954	8761	2010
Particles >6µm		ASTM D7647	>5000	▲ 7602	4772	1095
Particles >14µm		ASTM D7647	>640	▲ 1294	▲ 812	186
Particles >21µm		ASTM D7647	>160	▲ 436	▲ 274	63
Particles >38µm		ASTM D7647	>40	▲ 67	▲ 42	10
Particles >71µm		ASTM D7647	>10	7	4	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/20/17	▲ 20/19/17	18/17/15
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		3	0	3
Boron	ppm	ASTM D5185m		55	40	47
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		48	53	45
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		495	542	491
Calcium	ppm	ASTM D5185m		1625	1876	1569
Phosphorus	ppm	ASTM D5185m		763	777	730
Zinc	ppm	ASTM D5185m		893	970	921
Sulfur	ppm	ASTM D5185m		2326	2348	2609
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	22.5	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.6	8.1	8.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.0	11.1	10.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861720 **Received** : 10 Jan 2024
Lab Number : 06056565 **Diagnosed** : 11 Jan 2024
Unique Number : 10822514 **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)

CAROLINA SUNROCK
 PO BOX 25
 BUTNER, NC
 US 27509
 Contact: Leigh Dennis
 rdennis@thesunrockgroup.com
 T: (919)575-4505
 F: (919)575-0162