



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6454 6454

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		WC0885960	WC0885801	WC0861981
Sample Date		Client Info		15 Jan 2024	22 Dec 2023	17 Oct 2023
Machine Age	hrs	Client Info		9039	7308	6926
Oil Age	hrs	Client Info		362	404	355
Filter Age	hrs	Client Info		362	404	355
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	5	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	5
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	11	<1	7
Tin	ppm	ASTM D5185m	>15	<1	0	<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

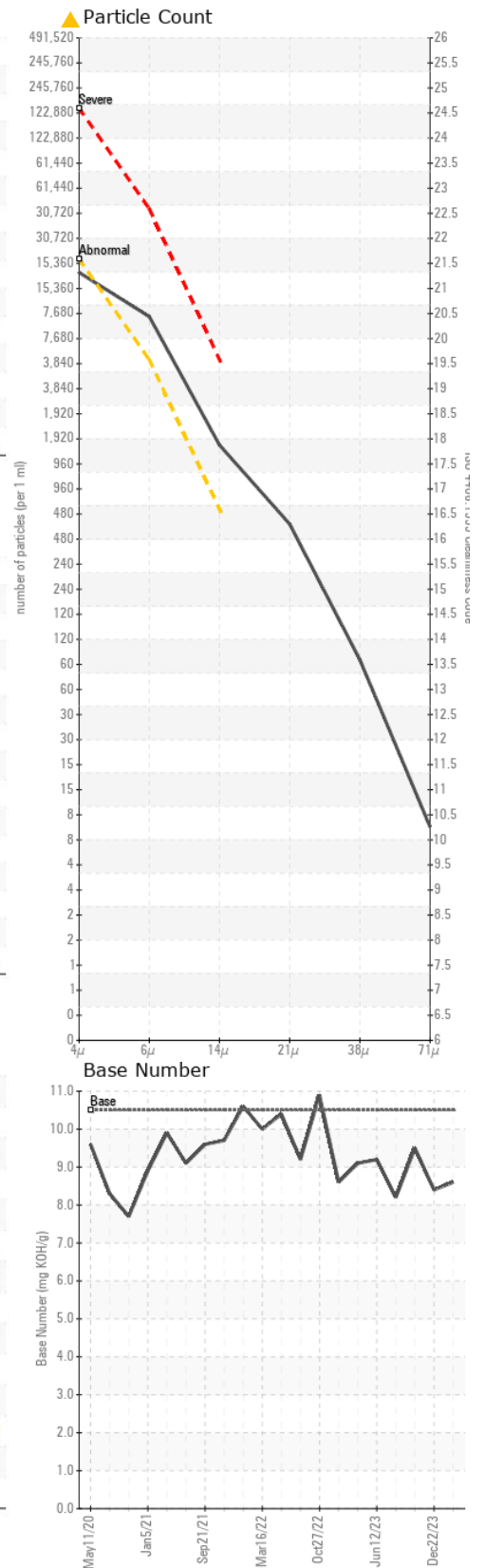
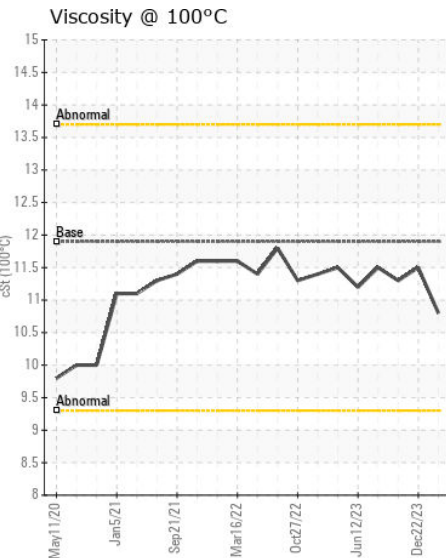
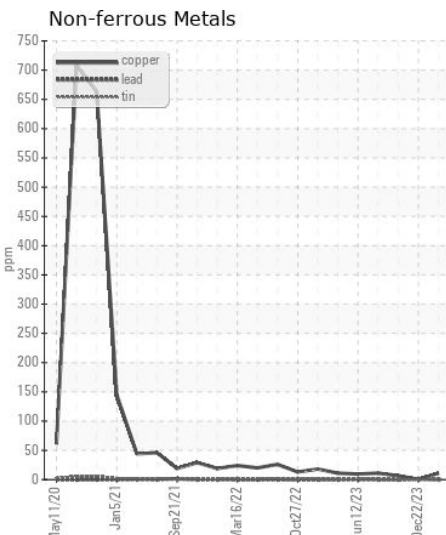
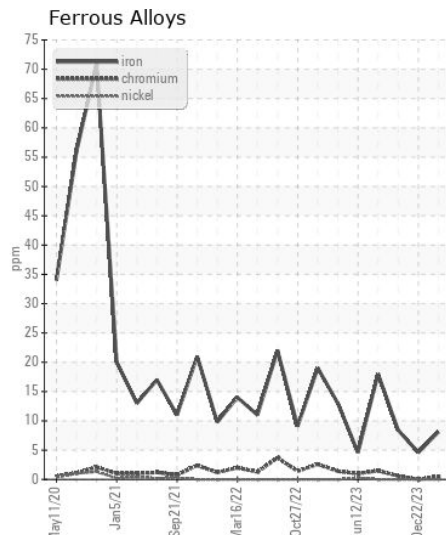
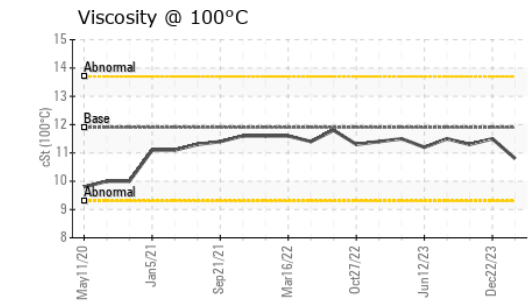
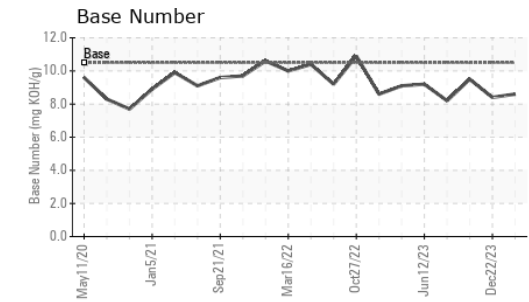
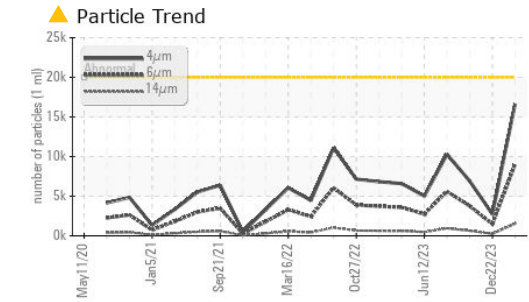
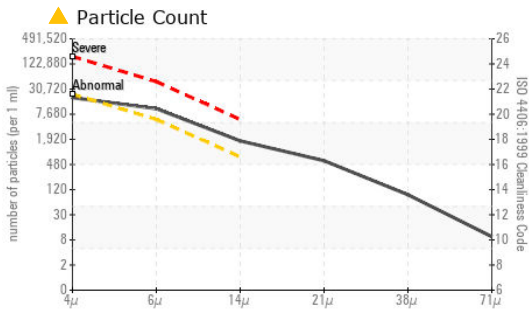
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	7	1	6
Potassium	ppm	ASTM D5185m	>20	4	0	6
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	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.8	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.1	21.9
Particles >4µm		ASTM D7647	>20000	16616	2740	6908
Particles >6µm		ASTM D7647	>5000	▲ 9052	1493	3763
Particles >14µm		ASTM D7647	>640	▲ 1541	254	640
Particles >21µm		ASTM D7647	>160	▲ 519	86	216
Particles >38µm		ASTM D7647	>40	▲ 80	13	33
Particles >71µm		ASTM D7647	>10	8	1	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/20/18	19/18/15	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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	3	2
Boron	ppm	ASTM D5185m		39	<1	45
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		53	<1	47
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		522	9	510
Calcium	ppm	ASTM D5185m		1641	1686	1748
Phosphorus	ppm	ASTM D5185m		743	315	789
Zinc	ppm	ASTM D5185m		929	404	958
Sulfur	ppm	ASTM D5185m		2388	3087	2677
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	22.0	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.6	8.4	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	10.8	11.5	11.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885960 **Received** : 19 Jan 2024
Lab Number : 06065471 **Diagnosed** : 23 Jan 2024
Unique Number : 10836853 **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