



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Mobile Fleet
 Machine Id
5215 5215
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (7 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		WC0919026	WC0861903	WC0867230
Sample Date		Client Info		09 Apr 2024	29 Dec 2023	18 Oct 2023
Machine Age	hrs	Client Info		12329	11759	11234
Oil Age	hrs	Client Info		570	549	586
Filter Age	hrs	Client Info		570	549	586
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	14	12
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	4	6	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

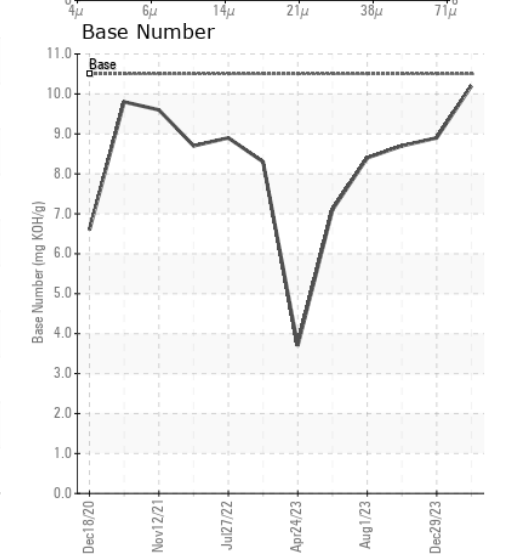
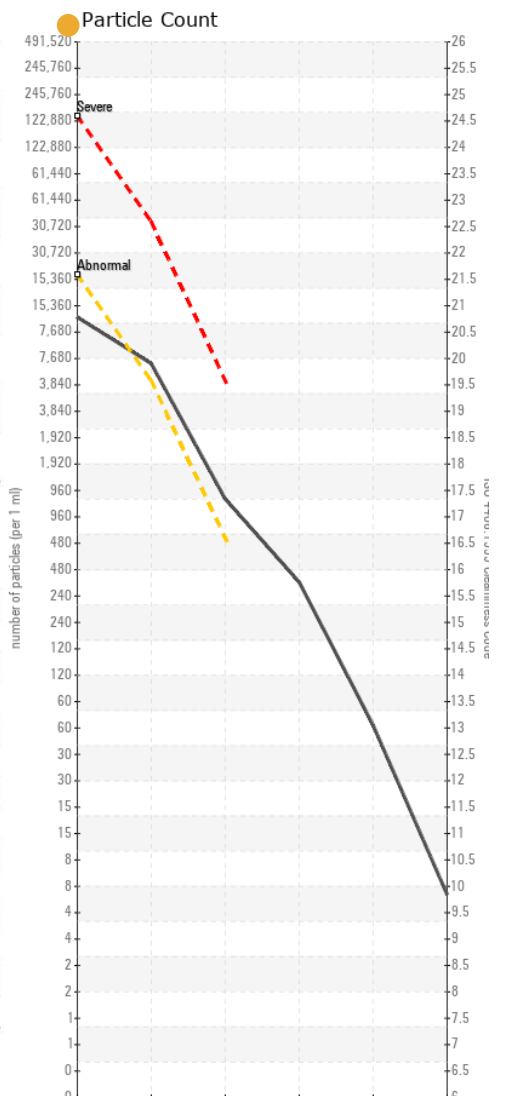
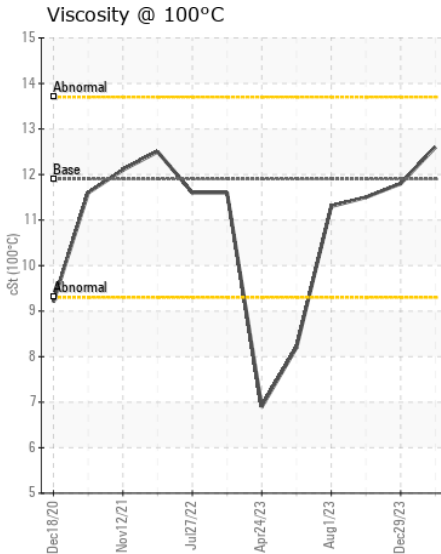
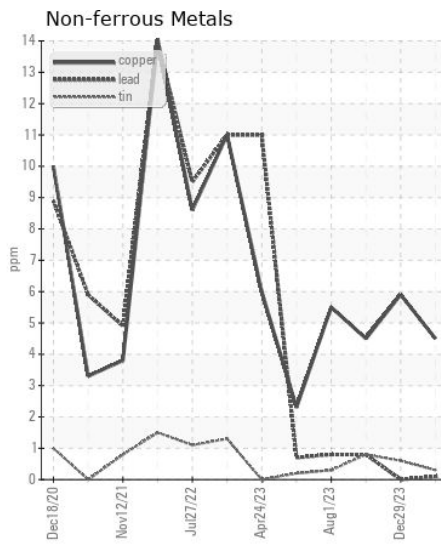
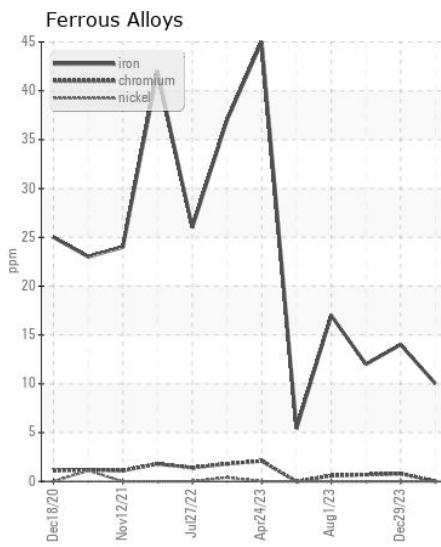
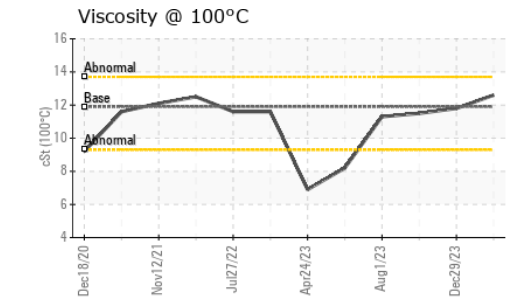
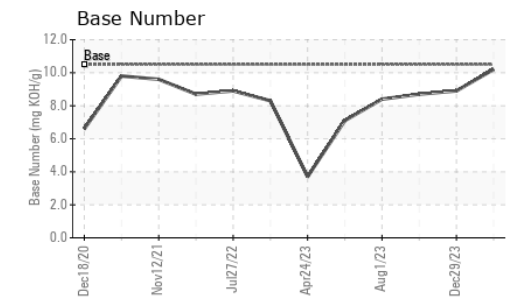
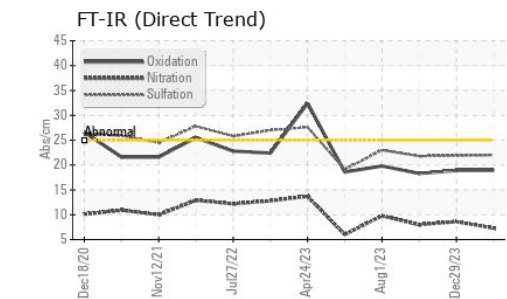
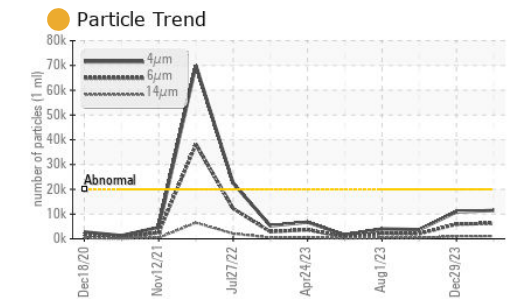
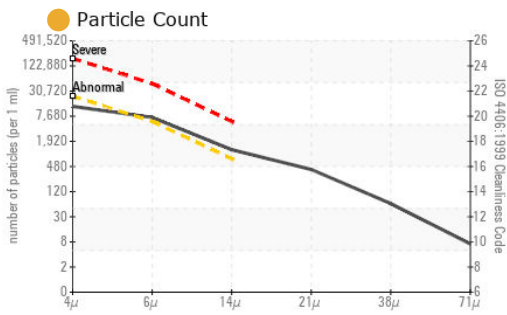
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	8	8	9
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
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	0.9	1.3	1.3
Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.9	21.8
Particles >4µm		ASTM D7647	>20000	11475	10883	3724
Particles >6µm		ASTM D7647	>5000	6251	5929	2028
Particles >14µm		ASTM D7647	>640	1064	1009	345
Particles >21µm		ASTM D7647	>160	358	340	116
Particles >38µm		ASTM D7647	>40	55	52	18
Particles >71µm		ASTM D7647	>10	6	5	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	21/20/17	19/18/16
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		4	5	6
Boron	ppm	ASTM D5185m		43	33	30
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	48	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		525	485	468
Calcium	ppm	ASTM D5185m		1810	1651	1669
Phosphorus	ppm	ASTM D5185m		839	766	735
Zinc	ppm	ASTM D5185m		986	912	913
Sulfur	ppm	ASTM D5185m		3207	2425	2476
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	18.9	18.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	10.2	8.9	8.7
Visc @ 100°C	cSt	ASTM D445	11.9	12.6	11.8	11.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919026 **Received** : 11 Apr 2024
Lab Number : 06146510 **Tested** : 15 Apr 2024
Unique Number : 10976588 **Diagnosed** : 15 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PrtCount, TBN)

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

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)