



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6425 6425
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919131	WC0902793	WC0861593
Sample Date		Client Info		19 Apr 2024	19 Feb 2024	12 Dec 2023
Machine Age	hrs	Client Info		11503	11158	10858
Oil Age	hrs	Client Info		352	300	328
Filter Age	hrs	Client Info		352	300	328
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	8	12	6
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	11	15	6
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>180	2	3	3
Tin	ppm	ASTM D5185m	>8	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

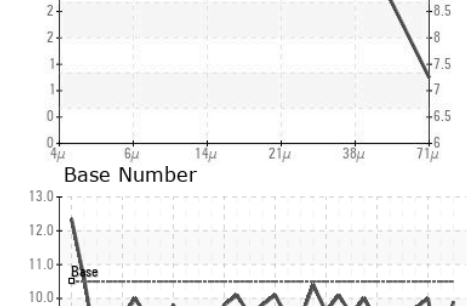
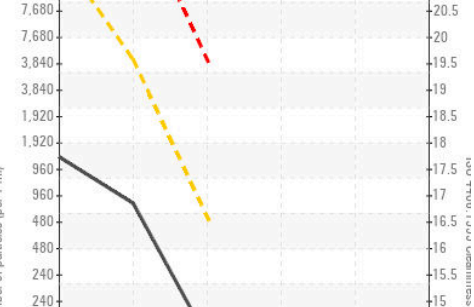
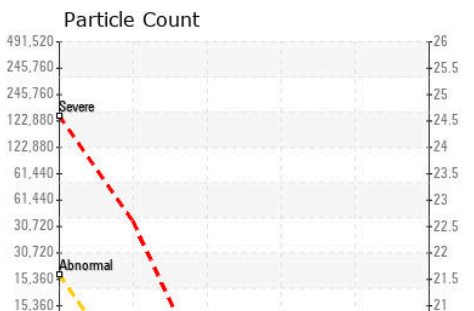
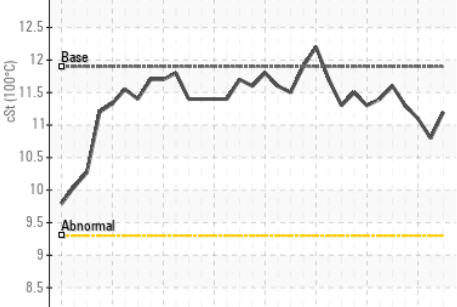
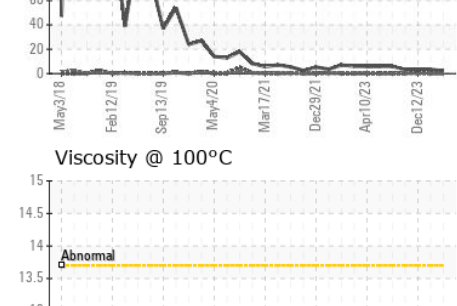
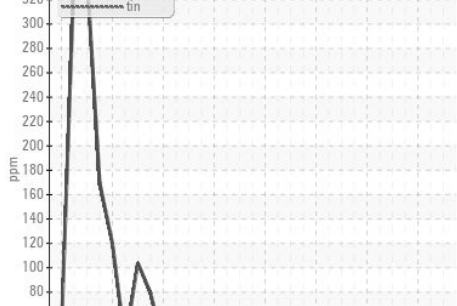
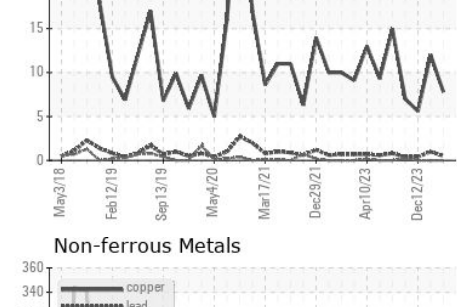
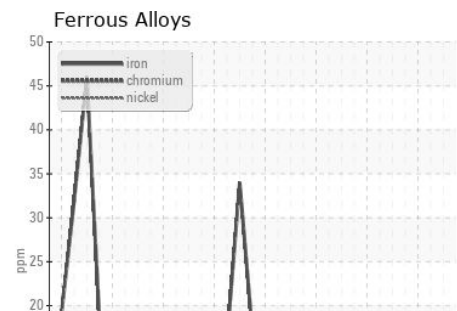
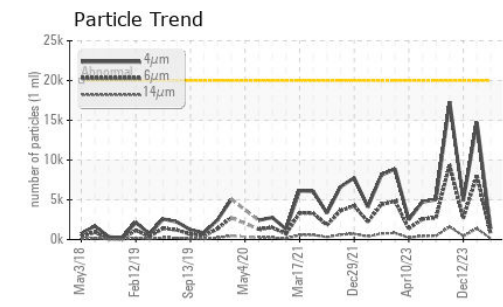
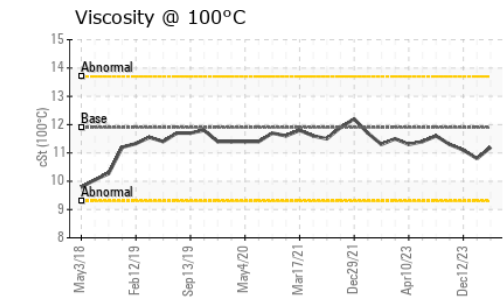
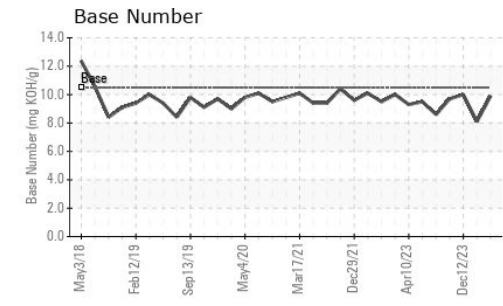
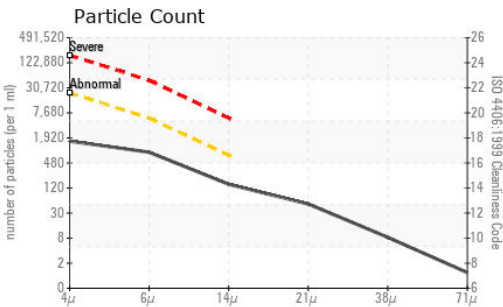
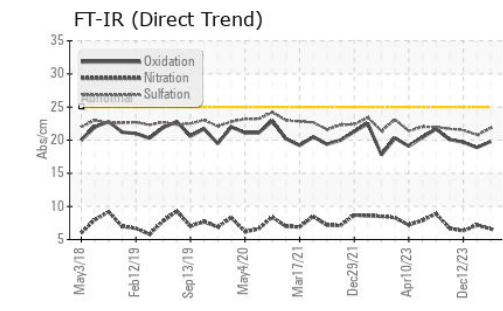
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	6	6	6
Potassium	ppm	ASTM D5185m	>20	20	29	8
Fuel		WC Method	>3.0	<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	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.2	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	20.8	21.5
Particles >4µm		ASTM D7647	>20000	1401	14737	4933
Particles >6µm		ASTM D7647	>5000	763	▲ 8028	2687
Particles >14µm		ASTM D7647	>640	130	▲ 1366	457
Particles >21µm		ASTM D7647	>160	44	▲ 460	154
Particles >38µm		ASTM D7647	>40	7	▲ 71	24
Particles >71µm		ASTM D7647	>10	1	7	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/14	▲ 21/20/18	19/19/16
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 suitable for further service.

Sodium	ppm	ASTM D5185m		<1	2	<1
Boron	ppm	ASTM D5185m		48	39	50
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	46	49
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		527	507	428
Calcium	ppm	ASTM D5185m		1664	1458	1634
Phosphorus	ppm	ASTM D5185m		766	748	710
Zinc	ppm	ASTM D5185m		910	893	870
Sulfur	ppm	ASTM D5185m		2763	2550	1831
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	18.9	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.9	8.1	10.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.2	10.8	11.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919131
Lab Number : 06158952
Unique Number : 10994375
Test Package : CONST (Additional Tests: PrtCount, TBN)
Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Don Baldrige

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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