



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8020 8020
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0955983	WC0939335	WC0861766
Sample Date		Client Info		03 Jul 2024	07 May 2024	04 Mar 2024
Machine Age	hrs	Client Info		15296	15030	14769
Oil Age	hrs	Client Info		527	261	254
Filter Age	hrs	Client Info		527	261	254
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	12	19
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	6	15
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	5	2	7
Tin	ppm	ASTM D5185m	>15	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

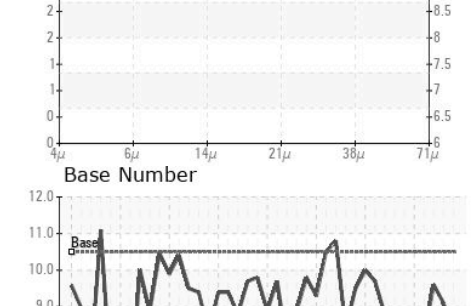
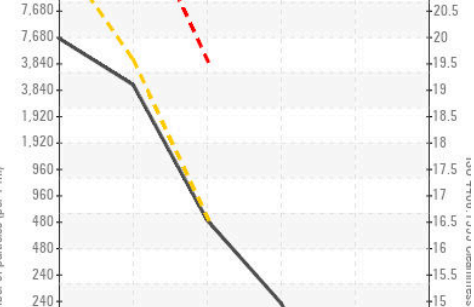
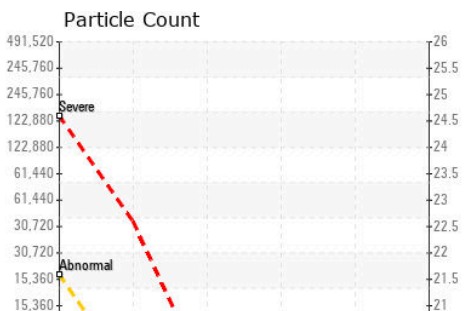
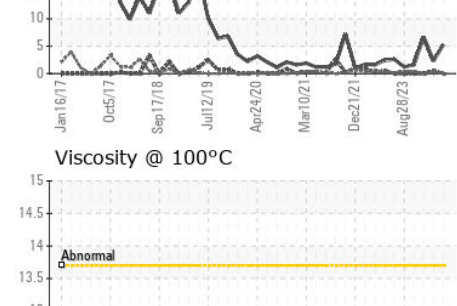
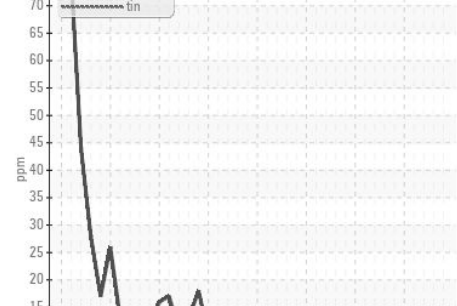
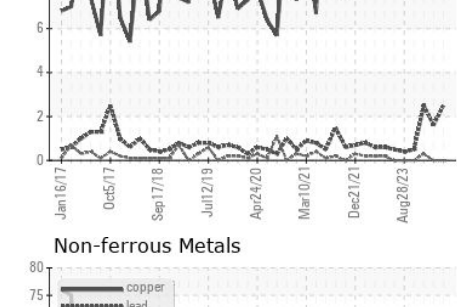
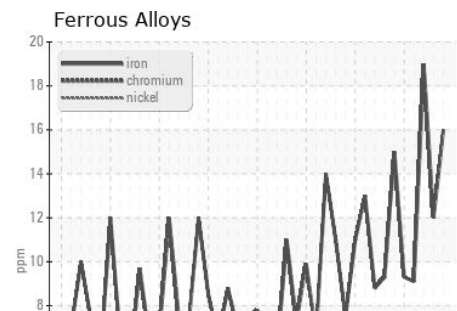
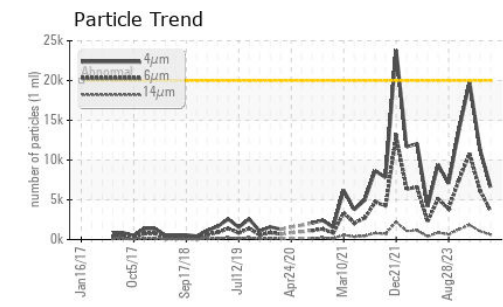
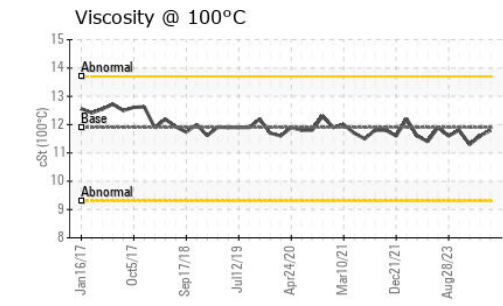
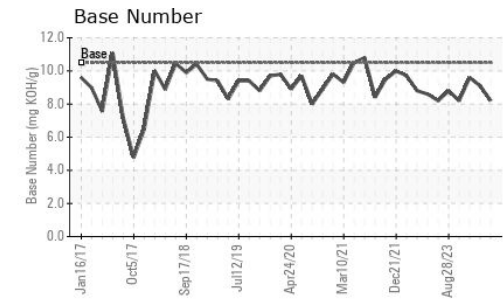
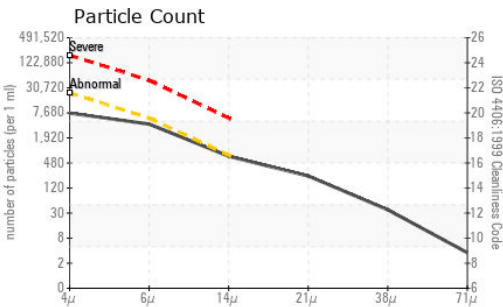
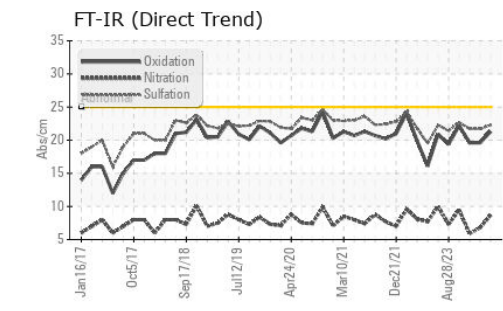
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	5
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	0.5	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.8	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.7	21.7
Particles >4µm		ASTM D7647	>20000	6603	11301	19800
Particles >6µm		ASTM D7647	>5000	3597	6156	10786
Particles >14µm		ASTM D7647	>640	612	1048	1836
Particles >21µm		ASTM D7647	>160	206	353	618
Particles >38µm		ASTM D7647	>40	32	54	95
Particles >71µm		ASTM D7647	>10	3	6	10
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	21/20/17	21/21/18
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	2	3
Boron	ppm	ASTM D5185m		24	49	61
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		44	47	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		496	525	497
Calcium	ppm	ASTM D5185m		1839	1781	1682
Phosphorus	ppm	ASTM D5185m		781	785	715
Zinc	ppm	ASTM D5185m		939	948	845
Sulfur	ppm	ASTM D5185m		2727	2979	2392
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	19.6	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.2	9.1	9.6
Visc @ 100°C	cSt	ASTM D445	11.9	11.8	11.6	11.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0955983
Lab Number : 06231371
Unique Number : 11114864
Test Package : CONST (Additional Tests: PrtCount, TBN)
Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Don Baldridge

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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