



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8049 8049
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861669	WC0861650	WC0861719
Sample Date		Client Info		24 Apr 2024	12 Mar 2024	08 Jan 2024
Machine Age	hrs	Client Info		2462	2177	1855
Oil Age	hrs	Client Info		285	539	217
Filter Age	hrs	Client Info		285	539	217
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	11	19	9
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	94	195	106
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

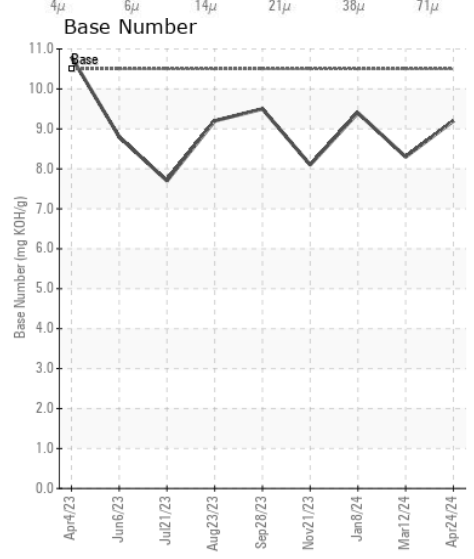
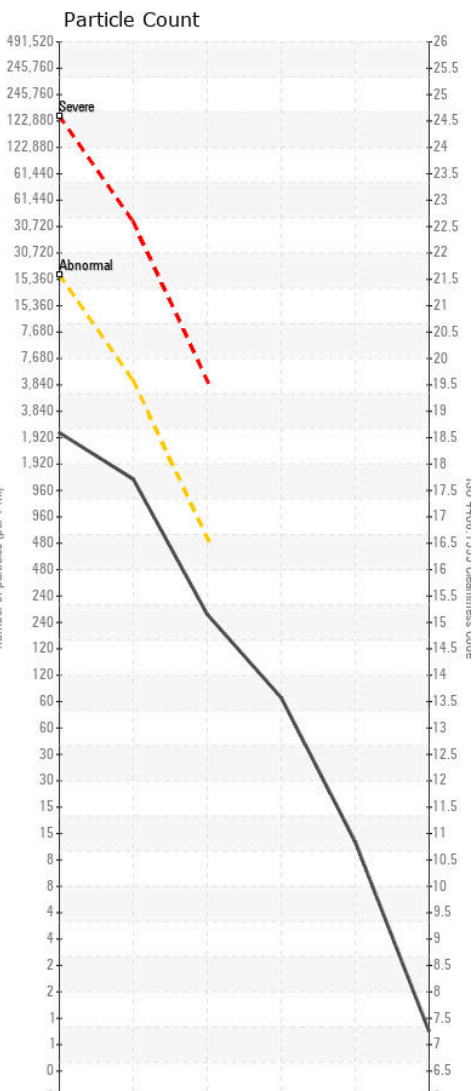
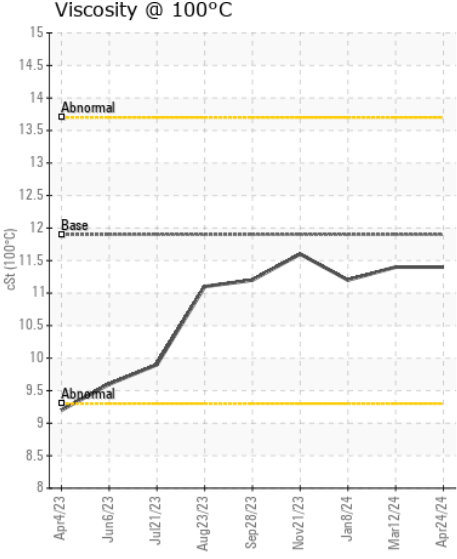
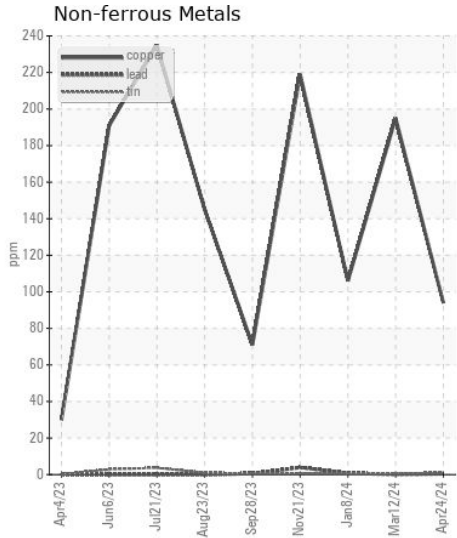
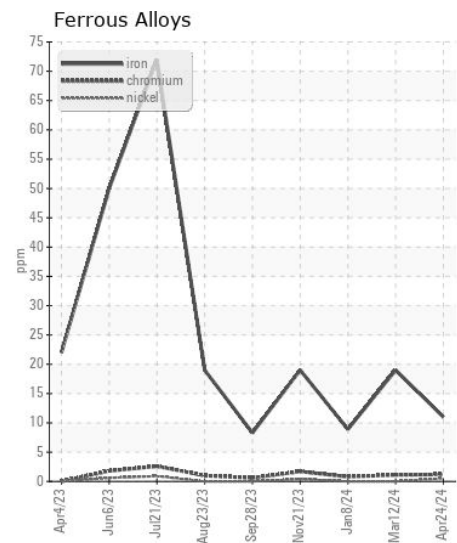
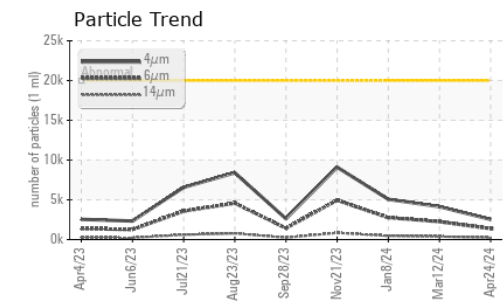
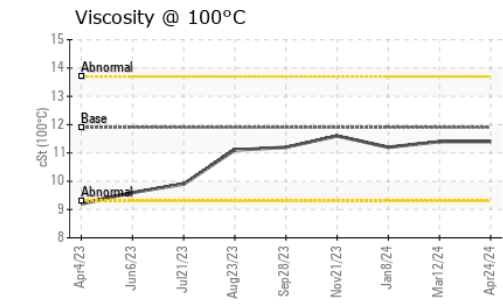
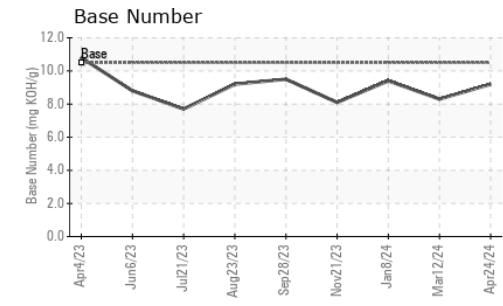
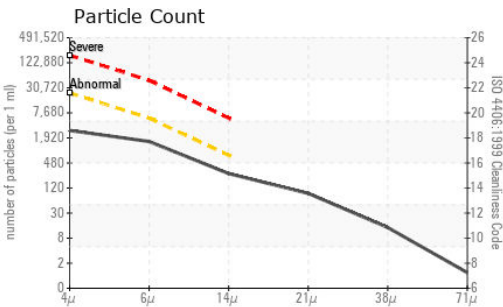
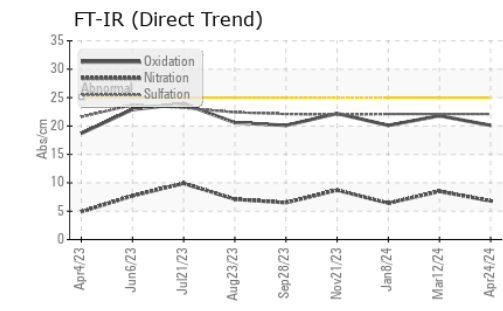
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	6
Potassium	ppm	ASTM D5185m	>20	6	11	7
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	6.8	8.5	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.1	22.1
Particles >4µm		ASTM D7647	>20000	2532	4141	5063
Particles >6µm		ASTM D7647	>5000	1379	2256	2758
Particles >14µm		ASTM D7647	>640	235	384	469
Particles >21µm		ASTM D7647	>160	79	129	158
Particles >38µm		ASTM D7647	>40	12	20	24
Particles >71µm		ASTM D7647	>10	1	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	19/18/16	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 suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m		45	35	52
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		49	48	49
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		496	482	503
Calcium	ppm	ASTM D5185m		1628	1605	1643
Phosphorus	ppm	ASTM D5185m		711	688	773
Zinc	ppm	ASTM D5185m		880	819	912
Sulfur	ppm	ASTM D5185m		2364	2175	2329
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	21.8	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.2	8.3	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.4	11.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861669 **Received** : 26 Apr 2024
Lab Number : 06161331 **Tested** : 30 Apr 2024
Unique Number : 10996754 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
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)

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