



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8047 8047
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956074	WC0937925	WC0937884
Sample Date		Client Info		16 Jul 2024	12 Jun 2024	01 May 2024
Machine Age	hrs	Client Info		3118	2883	2552
Oil Age	hrs	Client Info		249	722	391
Filter Age	hrs	Client Info		249	722	391
Oil Changed		Client Info		Changed	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	7	21	13
Chromium	ppm	ASTM D5185m	>5	<1	2	2
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	6	13	8
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>180	56	129	▲ 186
Tin	ppm	ASTM D5185m	>8	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

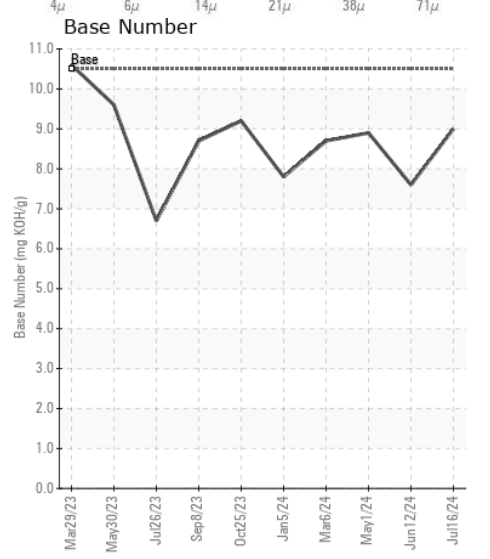
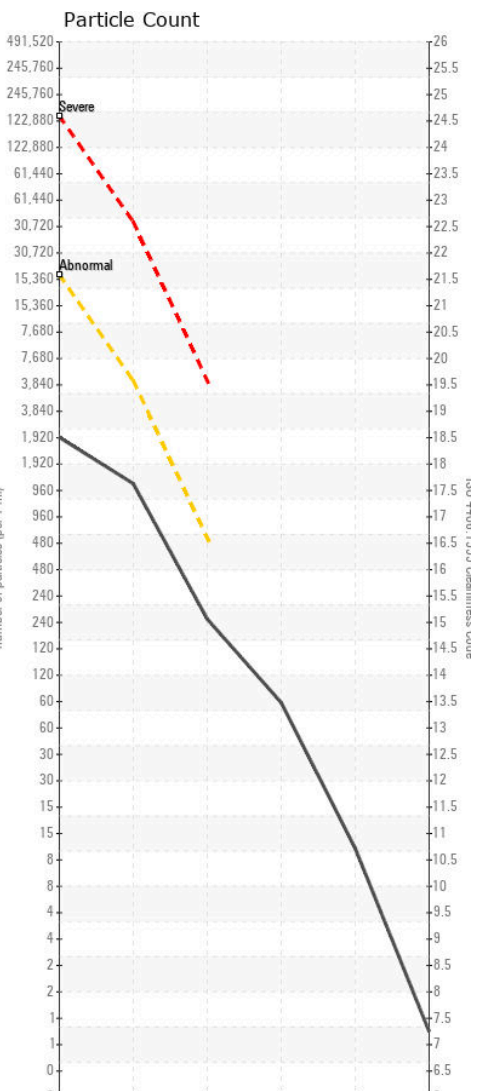
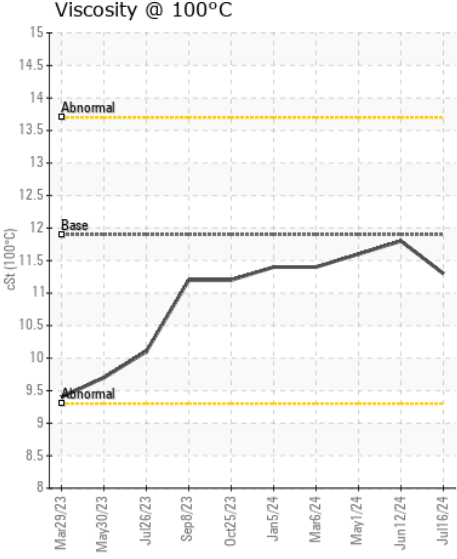
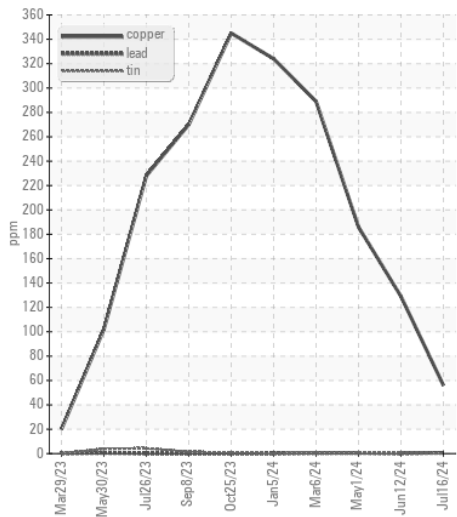
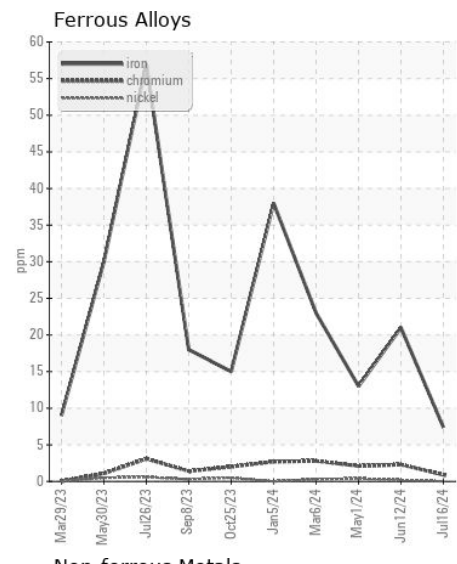
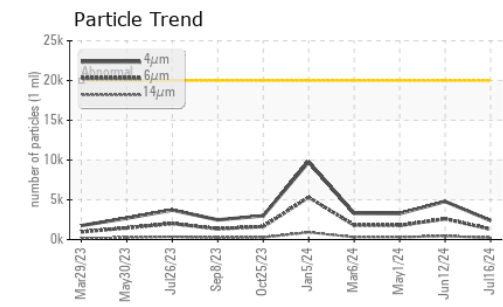
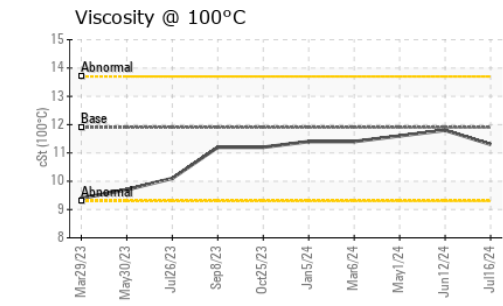
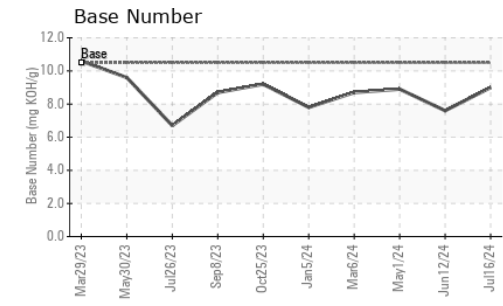
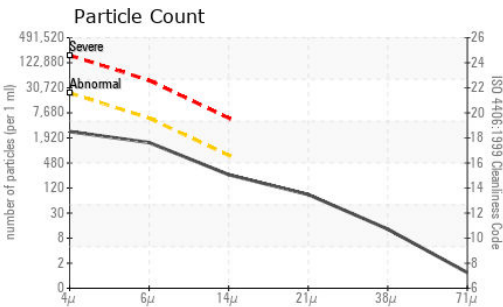
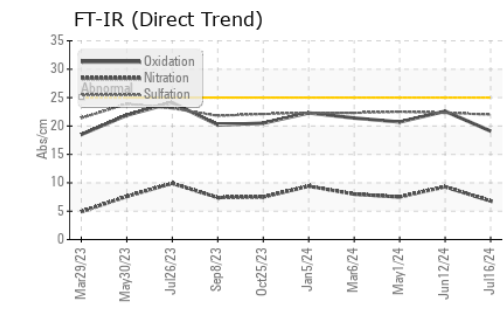
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	5	7	7
Potassium	ppm	ASTM D5185m	>20	16	30	19
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	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.8	9.3	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.3	22.5
Particles >4µm		ASTM D7647	>20000	2384	4793	3262
Particles >6µm		ASTM D7647	>5000	1299	2611	1777
Particles >14µm		ASTM D7647	>640	221	444	302
Particles >21µm		ASTM D7647	>160	74	150	102
Particles >38µm		ASTM D7647	>40	11	23	16
Particles >71µm		ASTM D7647	>10	1	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/15	19/19/16	19/18/15
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		3	<1	2
Boron	ppm	ASTM D5185m		34	23	42
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		48	48	47
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		559	501	490
Calcium	ppm	ASTM D5185m		1925	1689	1644
Phosphorus	ppm	ASTM D5185m		826	642	734
Zinc	ppm	ASTM D5185m		999	886	892
Sulfur	ppm	ASTM D5185m		2964	2116	2408
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	22.6	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	7.6	8.9
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.8	11.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956074 **Received** : 18 Jul 2024
Lab Number : 06240164 **Tested** : 19 Jul 2024
Unique Number : 11128998 **Diagnosed** : 19 Jul 2024 - Don Baldridge
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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