



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8114 8114
 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		WC0947758	WC0937787	WC0919014
Sample Date		Client Info		18 Jun 2024	02 May 2024	29 Mar 2024
Machine Age	hrs	Client Info		13243	2524	12762
Oil Age	hrs	Client Info		481	200	296
Filter Age	hrs	Client Info		481	200	296
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	4	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	20
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	2	9
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

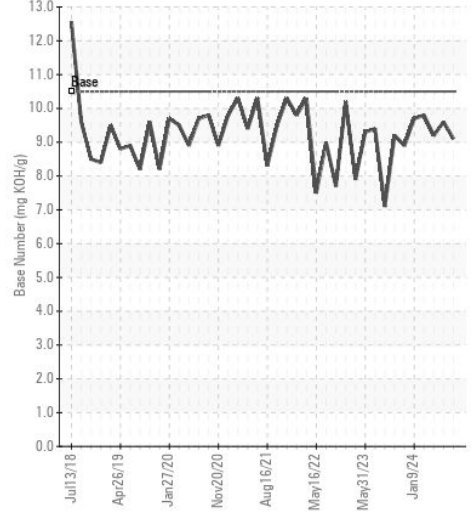
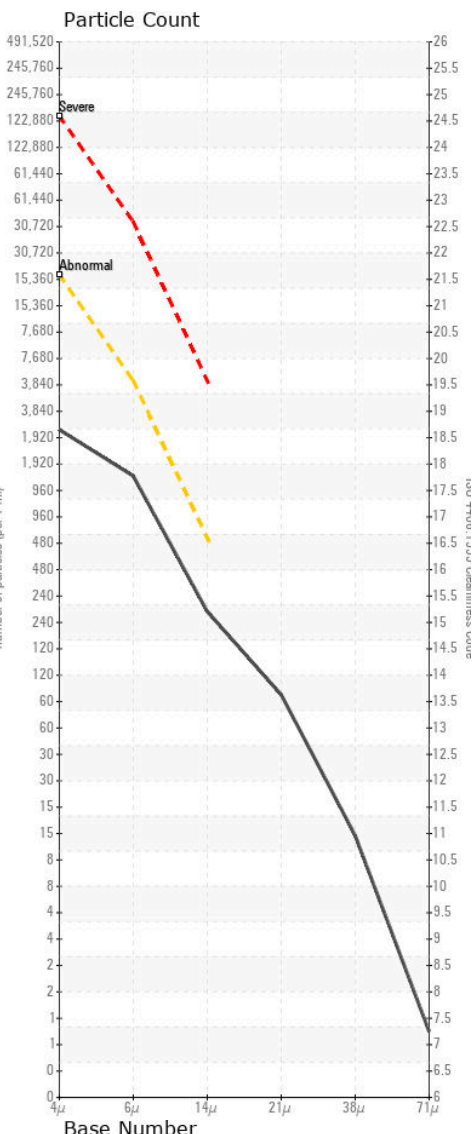
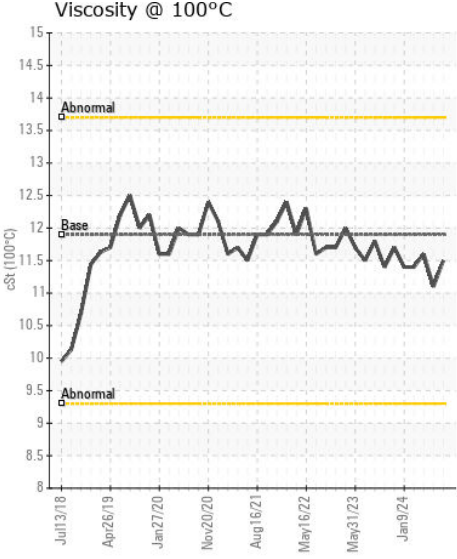
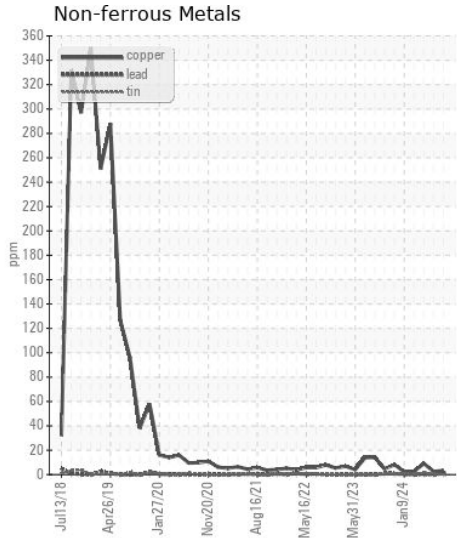
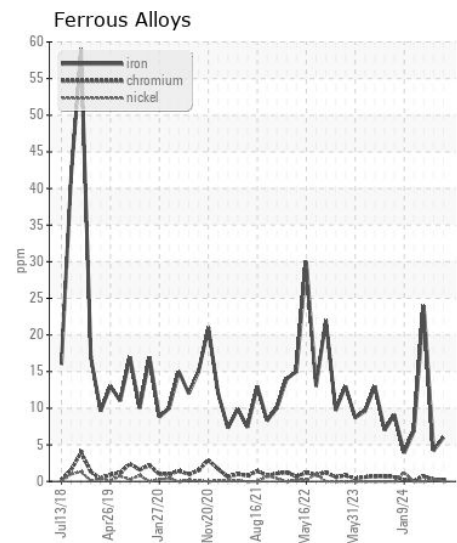
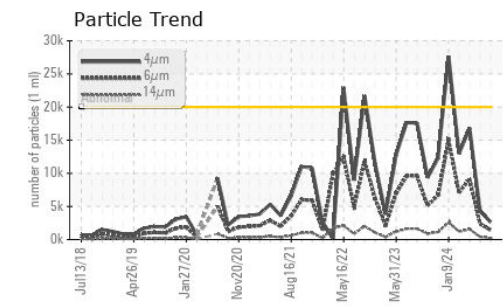
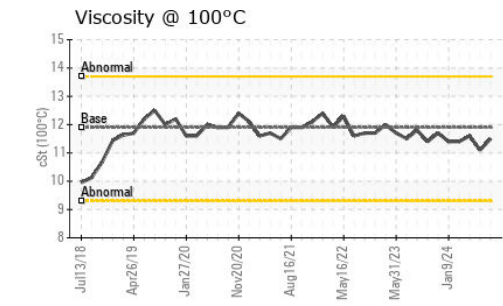
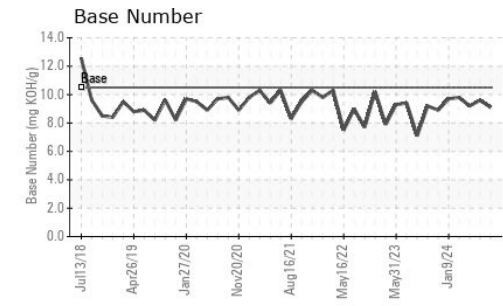
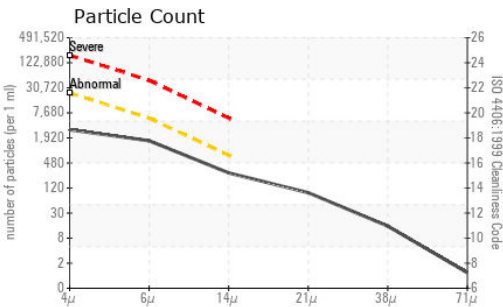
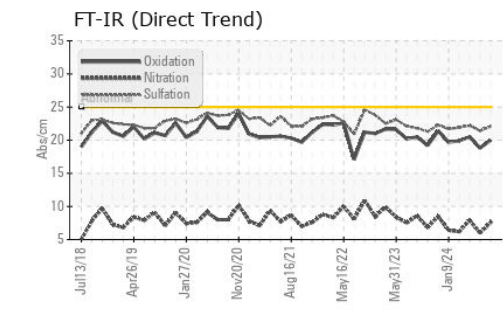
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	7	▲ 41
Potassium	ppm	ASTM D5185m	>20	3	2	2
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	0.4	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.4	22.2
Particles >4µm		ASTM D7647	>20000	2636	4332	16808
Particles >6µm		ASTM D7647	>5000	1436	2360	▲ 9156
Particles >14µm		ASTM D7647	>640	244	402	▲ 1558
Particles >21µm		ASTM D7647	>160	82	135	▲ 525
Particles >38µm		ASTM D7647	>40	13	21	▲ 81
Particles >71µm		ASTM D7647	>10	1	2	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	19/18/16	▲ 21/20/18
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		2	3	6
Boron	ppm	ASTM D5185m		30	58	37
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	47	47
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		540	473	530
Calcium	ppm	ASTM D5185m		1867	1516	1811
Phosphorus	ppm	ASTM D5185m		828	710	732
Zinc	ppm	ASTM D5185m		1033	877	897
Sulfur	ppm	ASTM D5185m		3090	2562	2892
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	18.8	20.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.1	9.6	9.2
Visc @ 100°C	cSt	ASTM D445	11.9	11.5	11.1	11.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947758
Lab Number : 06215691
Unique Number : 11088555
Test Package : CONST (Additional Tests: PrtCount, TBN)
Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 22 Jun 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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