



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
411 411
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937842	WC0835002	WC0630667
Sample Date		Client Info		08 Jul 2024	04 Aug 2023	23 Dec 2021
Machine Age	hrs	Client Info		1687	1647	1594
Oil Age	hrs	Client Info		17	54	54
Filter Age	hrs	Client Info		17	54	54
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	9	10	12
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
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

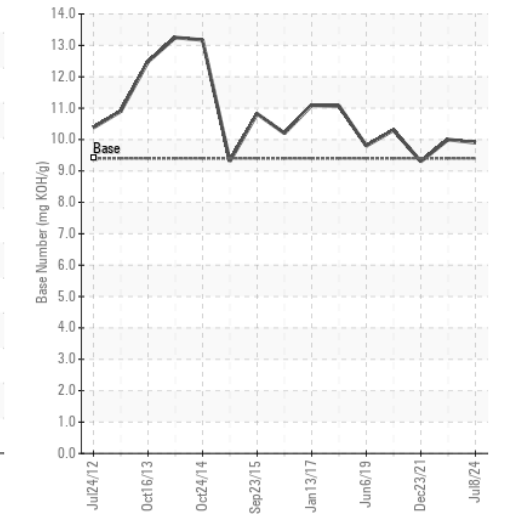
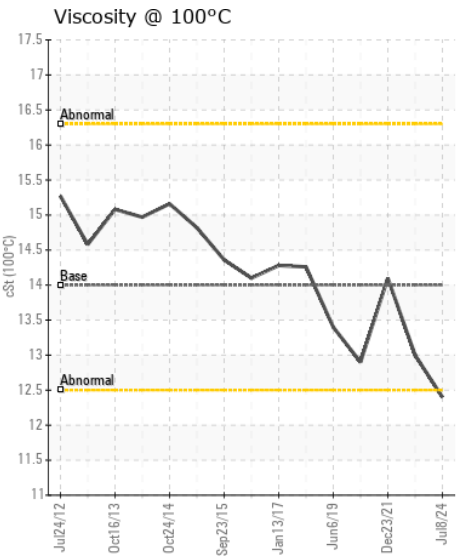
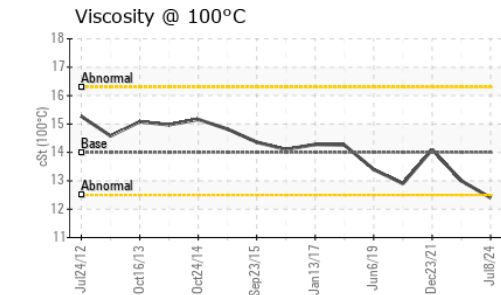
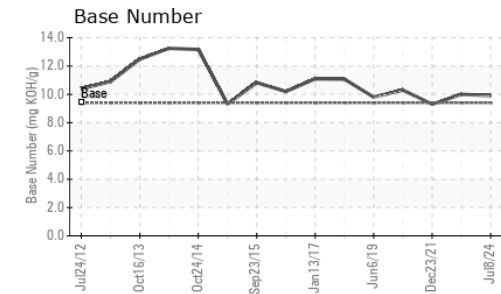
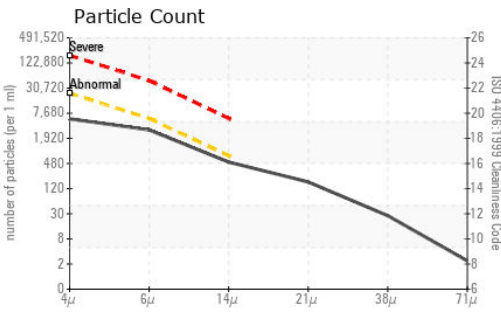
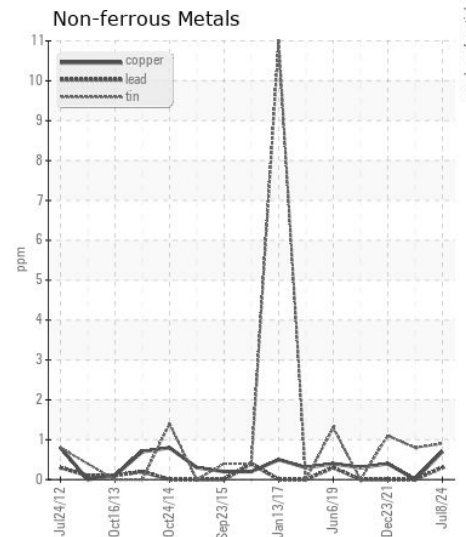
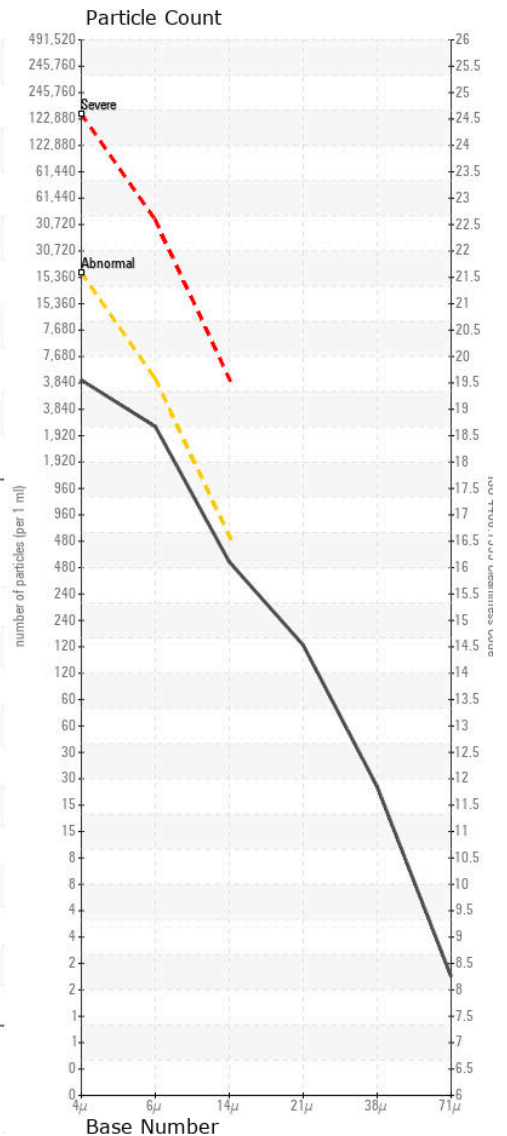
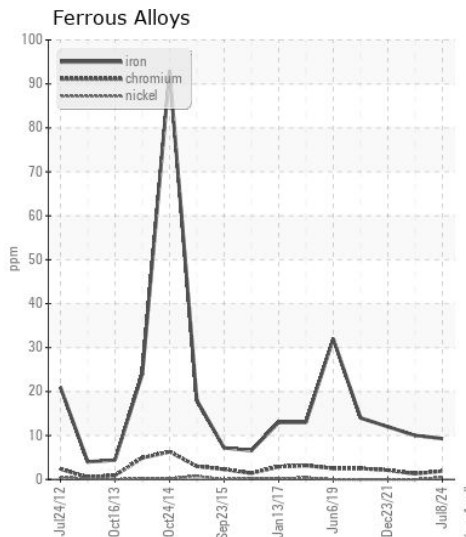
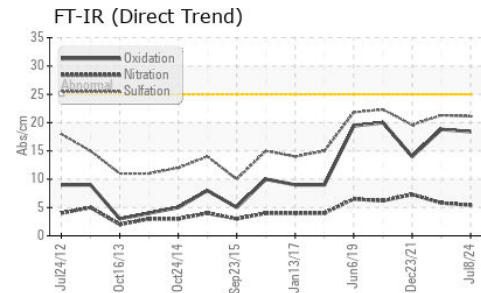
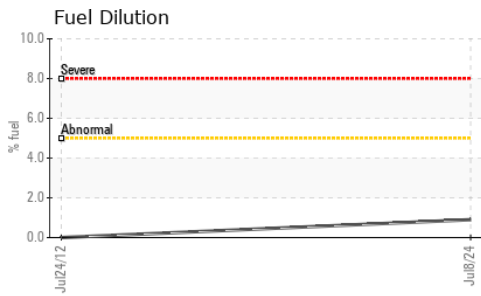
Fuel content negligible. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	7	5	6
Potassium	ppm	ASTM D5185m	>20	2	0	2
Fuel	%	ASTM D3524	>5	0.9	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.4	5.8	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.3	19.6
Particles >4µm		ASTM D7647	>20000	4907	11362	15655
Particles >6µm		ASTM D7647	>5000	2673	6189	8528
Particles >14µm		ASTM D7647	>640	455	1053	1451
Particles >21µm		ASTM D7647	>160	153	355	489
Particles >38µm		ASTM D7647	>40	24	55	75
Particles >71µm		ASTM D7647	>10	2	6	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/19/16	21/20/17	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		3	1	3
Boron	ppm	ASTM D5185m	0	77	79	106
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	46	44	27
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	467	608	655
Calcium	ppm	ASTM D5185m		1545	1816	1319
Phosphorus	ppm	ASTM D5185m		648	848	671
Zinc	ppm	ASTM D5185m		831	1031	773
Sulfur	ppm	ASTM D5185m		2225	3490	2432
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.8	14
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.9	10.0	9.3
Visc @ 100°C	cSt	ASTM D445	14	12.4	13.0	14.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937842
Lab Number : 06232157
Unique Number : 11115650
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, PrtCount, TBN)

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Received : 10 Jul 2024
 Tested : 12 Jul 2024
 Diagnosed : 12 Jul 2024 - Sean Felton
 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)