CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8113 8113
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

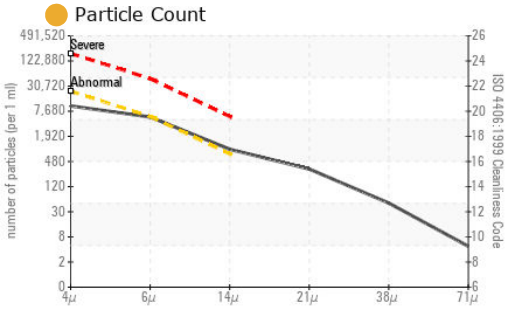
CONTAMINATION

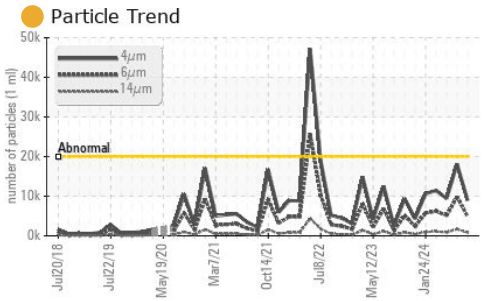
There is a moderate amount of particulates present in the oil.

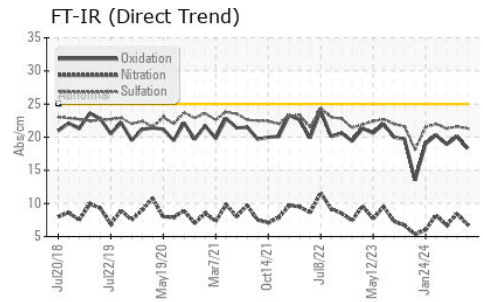
FLUID CONDITION

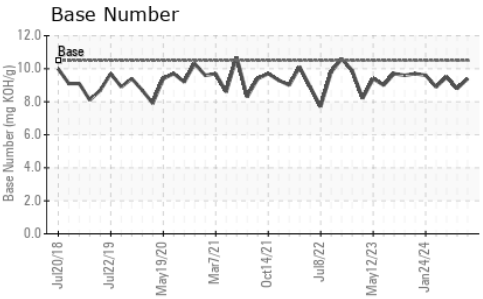
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

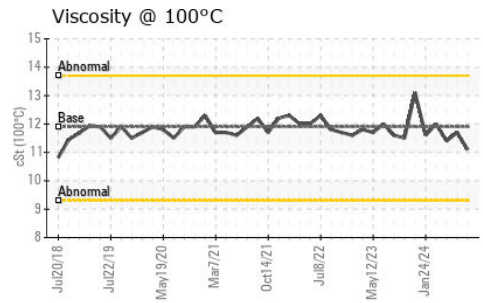
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956014	WC0947741	WC0919111
Sample Date		Client Info		12 Jul 2024	07 Jun 2024	24 Apr 2024
Machine Age	hrs	Client Info		14168	13932	13640
Oil Age	hrs	Client Info		236	575	283
Filter Age	hrs	Client Info		236	575	283
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	7	12	8
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	18	9
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	4
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	6	9
Potassium	ppm	ASTM D5185m	>20	20	40	19
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	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.4	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.6	21.3
Particles >4µm		ASTM D7647	>20000	8926	18087	9396
Particles >6µm		ASTM D7647	>5000	4862	▲ 9853	● 5118
Particles >14µm		ASTM D7647	>640	● 828	▲ 1677	● 871
Particles >21µm		ASTM D7647	>160	● 279	▲ 565	● 293
Particles >38µm		ASTM D7647	>40	● 43	▲ 87	● 45
Particles >71µm		ASTM D7647	>10	4	9	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	▲ 21/20/18	● 20/20/17
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
Sodium	ppm	ASTM D5185m		2	3	2
Boron	ppm	ASTM D5185m		38	28	43
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		70	51	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		515	543	507
Calcium	ppm	ASTM D5185m		1714	1831	1608
Phosphorus	ppm	ASTM D5185m		774	803	730
Zinc	ppm	ASTM D5185m		917	987	902
Sulfur	ppm	ASTM D5185m		2861	2905	2590
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	20.1	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	8.8	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	11.1	11.7	11.4

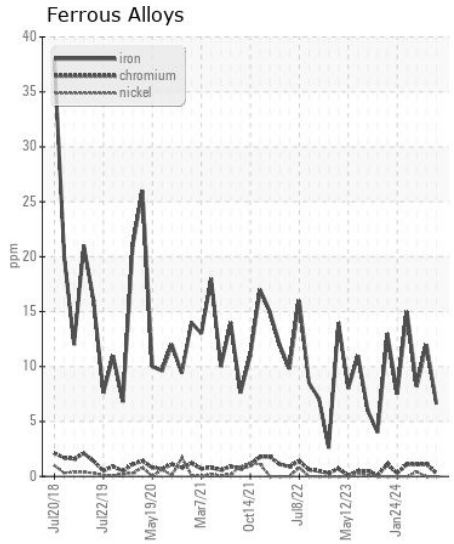


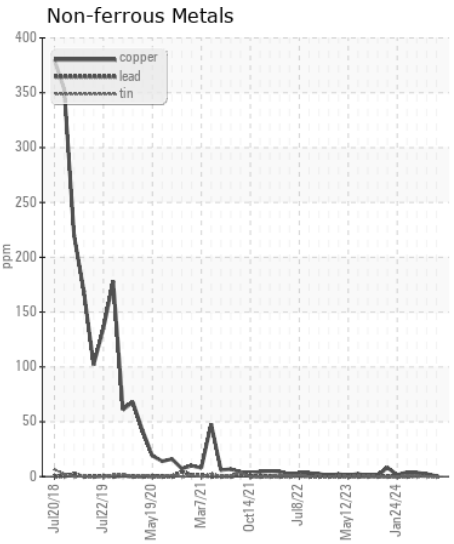


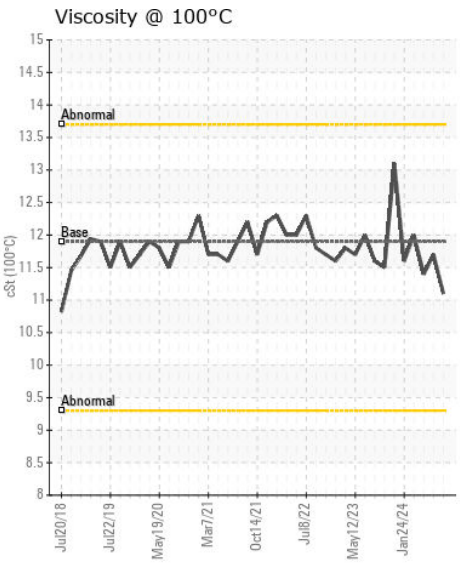


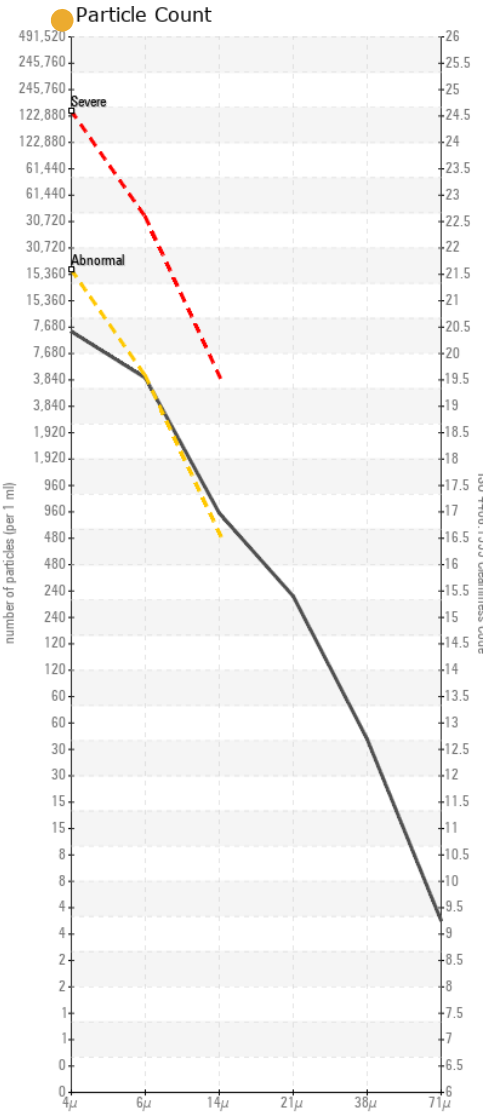


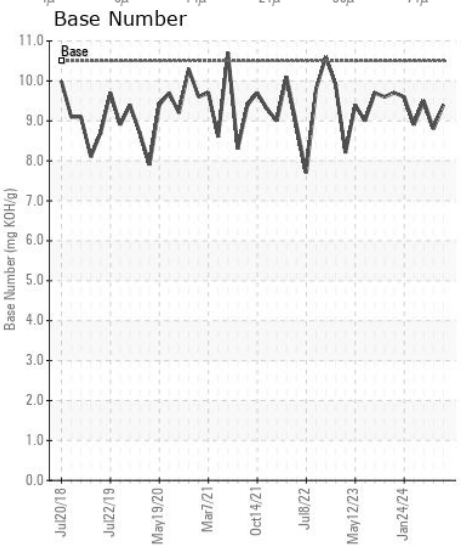












Jul20/18 Jul22/19 May19/20 Mar7/21 Oct14/21 Jul8/22 May12/23 Jan24/24

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956014
Lab Number : 06235740
Unique Number : 11124574
Test Package : CONST (Additional Tests: PrtCount, TBN)

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Don Baldridge

Certificate L2367

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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