CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8116 8116
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

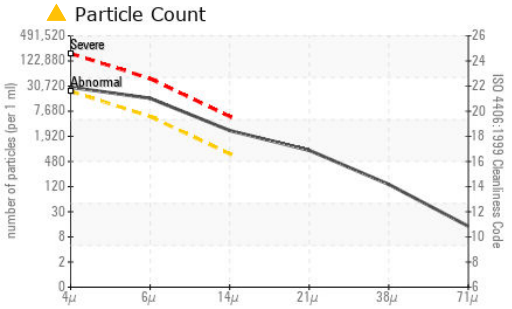
CONTAMINATION

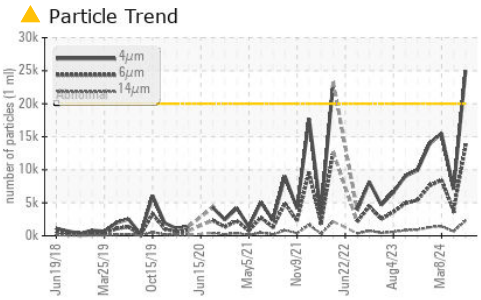
There is a high amount of particulates present in the oil.

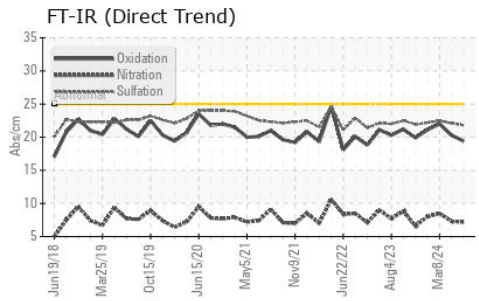
FLUID CONDITION

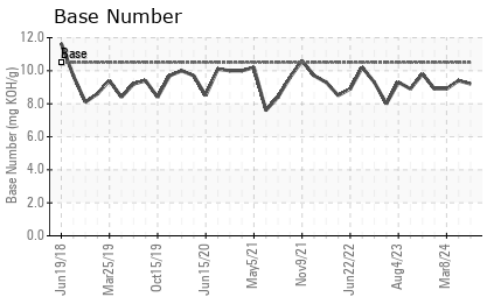
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

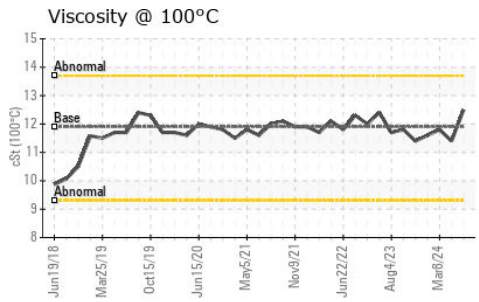
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947770	WC0919052	WC0902926
Sample Date		Client Info		12 Jun 2024	15 Apr 2024	08 Mar 2024
Machine Age	hrs	Client Info		12638	12351	12088
Oil Age	hrs	Client Info		550	263	448
Filter Age	hrs	Client Info		550	263	448
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>100	13	10	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	8	9
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	4	4
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	12	13	14
Potassium	ppm	ASTM D5185m	>20	4	4	5
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	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.3	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.1	22.5
Particles >4µm		ASTM D7647	>20000	▲ 24951	7055	15520
Particles >6µm		ASTM D7647	>5000	▲ 13592	3843	▲ 8455
Particles >14µm		ASTM D7647	>640	▲ 2313	● 654	▲ 1439
Particles >21µm		ASTM D7647	>160	▲ 779	● 220	▲ 485
Particles >38µm		ASTM D7647	>40	▲ 120	34	▲ 75
Particles >71µm		ASTM D7647	>10	▲ 12	3	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	● 20/19/17	▲ 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
Sodium	ppm	ASTM D5185m		3	4	4
Boron	ppm	ASTM D5185m		40	41	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	49	47
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		497	508	485
Calcium	ppm	ASTM D5185m		1566	1701	1628
Phosphorus	ppm	ASTM D5185m		683	824	678
Zinc	ppm	ASTM D5185m		902	946	896
Sulfur	ppm	ASTM D5185m		2671	2512	2335
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	20.3	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.2	9.4	8.9
Visc @ 100°C	cSt	ASTM D445	11.9	12.5	11.4	11.8

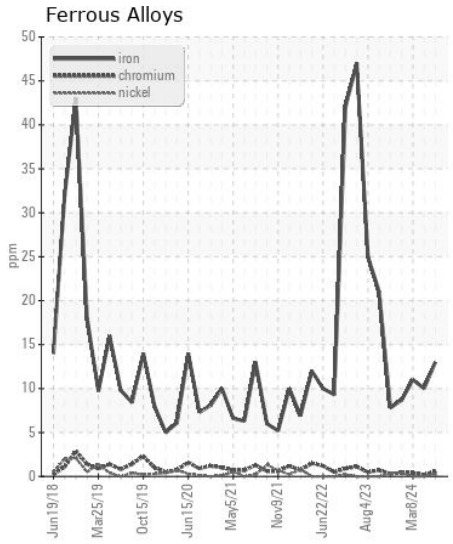


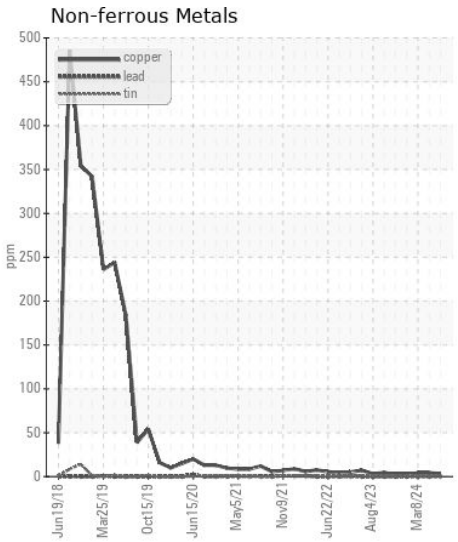


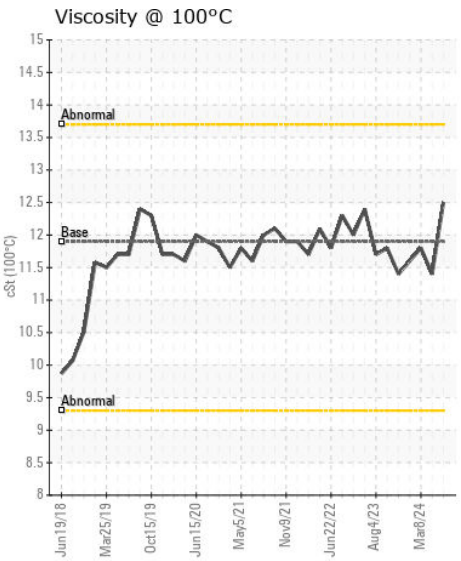


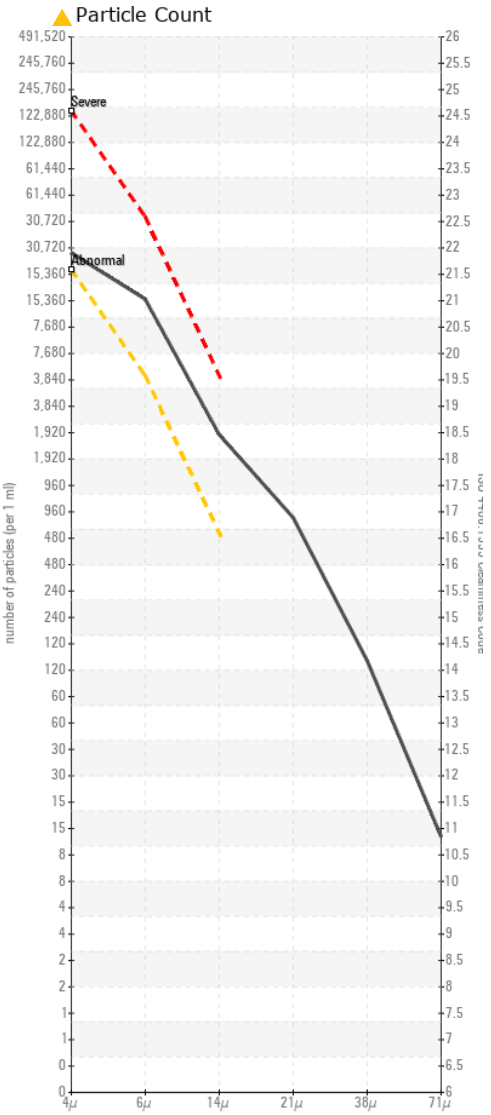


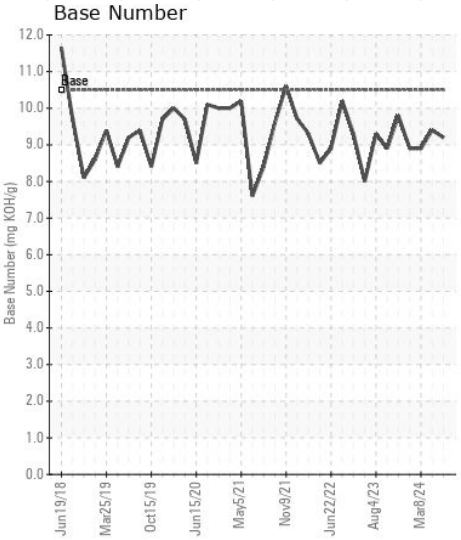












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947770 **Received** : 14 Jun 2024
Lab Number : 06209933 **Tested** : 19 Jun 2024
Unique Number : 11082797 **Diagnosed** : 19 Jun 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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