CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6409 6409
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

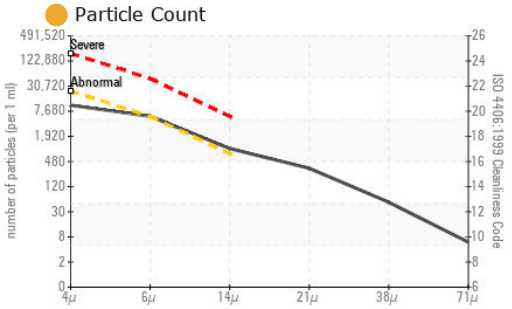
CONTAMINATION

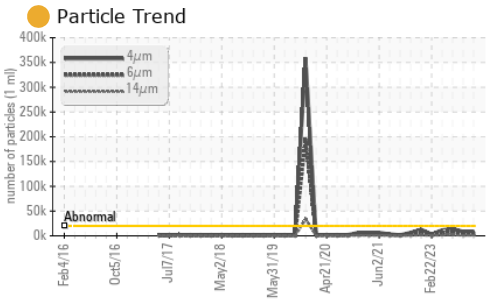
There is a moderate amount of particulates present in the oil.

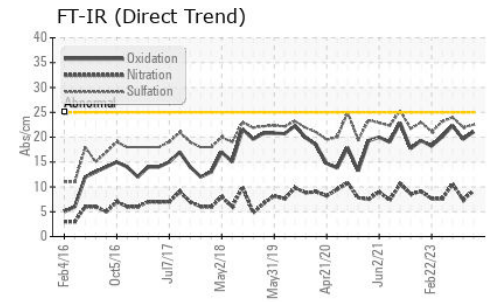
FLUID CONDITION

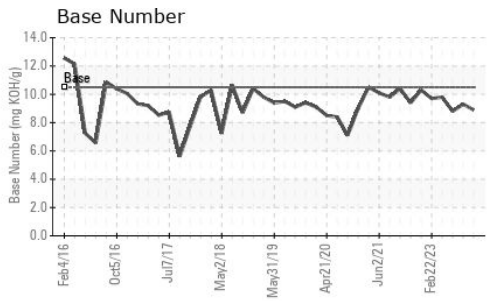
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

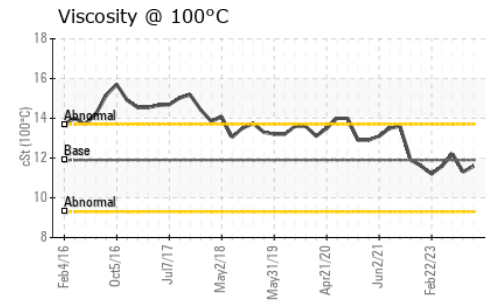
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919092	WC0902937	WC0862020
Sample Date		Client Info		17 Apr 2024	13 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		16977	16658	16405
Oil Age	hrs	Client Info		319	300	508
Filter Age	hrs	Client Info		319	300	508
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>100	41	32	40
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	6	10
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	3	4
Tin	ppm	ASTM D5185m	>15	<1	0	<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	9	9	10
Potassium	ppm	ASTM D5185m	>20	4	<1	4
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	0.9	0.6	1.6
Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.4	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.0	24.0
Particles >4µm		ASTM D7647	>20000	9291	8639	14563
Particles >6µm		ASTM D7647	>5000	5061	4706	7933
Particles >14µm		ASTM D7647	>640	861	801	1350
Particles >21µm		ASTM D7647	>160	290	270	455
Particles >38µm		ASTM D7647	>40	45	42	70
Particles >71µm		ASTM D7647	>10	5	4	7
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/20/17	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		5	3	4
Boron	ppm	ASTM D5185m		37	48	25
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		51	46	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		523	507	529
Calcium	ppm	ASTM D5185m		1706	1638	1701
Phosphorus	ppm	ASTM D5185m		778	736	749
Zinc	ppm	ASTM D5185m		912	878	948
Sulfur	ppm	ASTM D5185m		2733	2327	2396
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	19.6	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.9	9.3	8.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.6	11.3	12.2

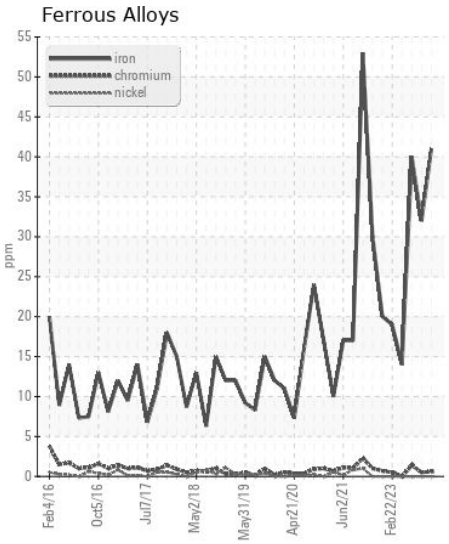


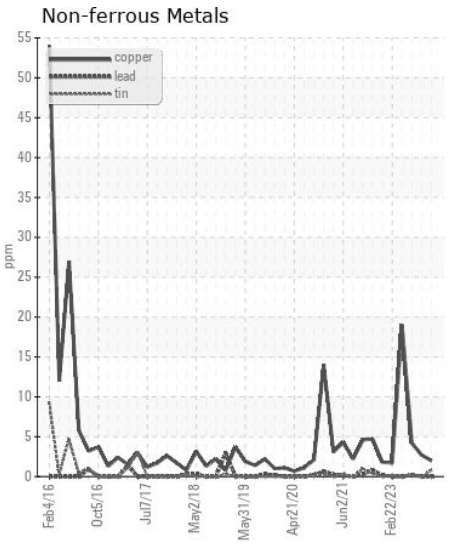


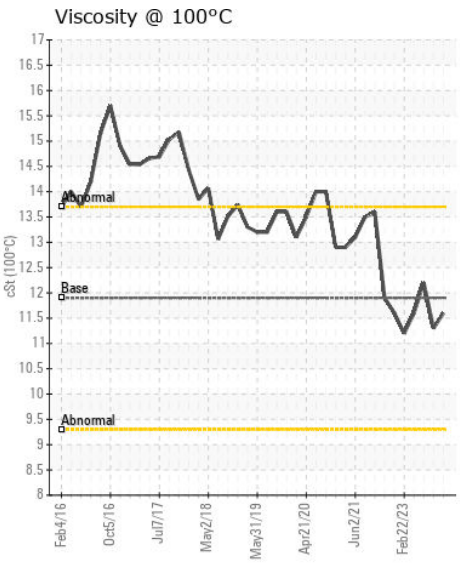


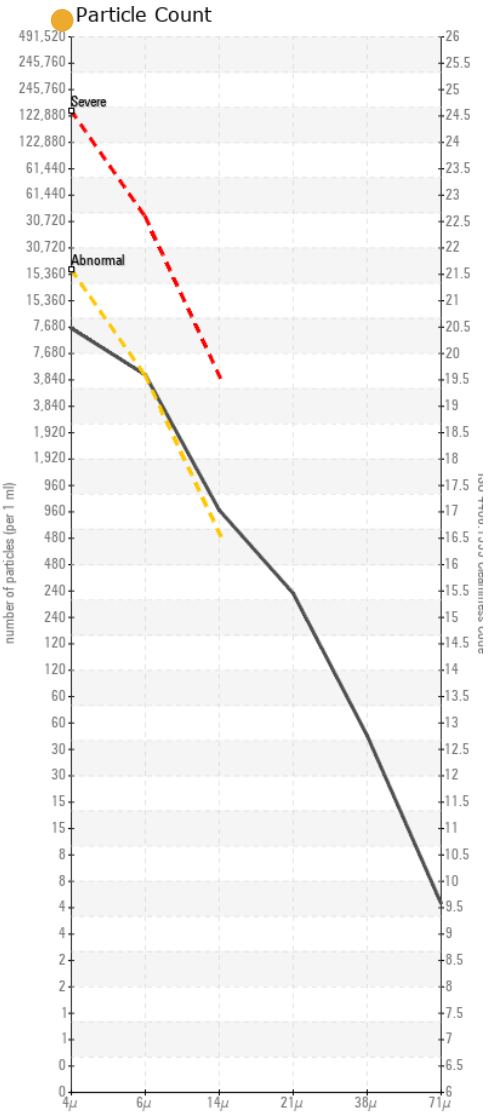


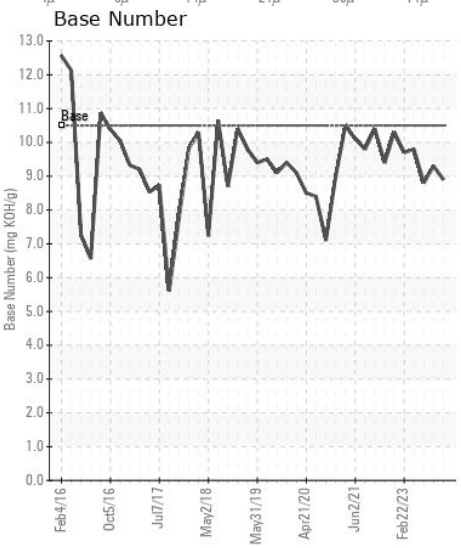












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919092 **Received** : 22 Apr 2024
Lab Number : 06156806 **Tested** : 24 Apr 2024
Unique Number : 10992229 **Diagnosed** : 24 Apr 2024 - Sean Felton
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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