CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8110 8110
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 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.

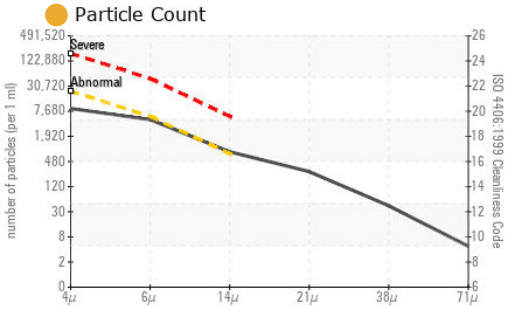
CONTAMINATION

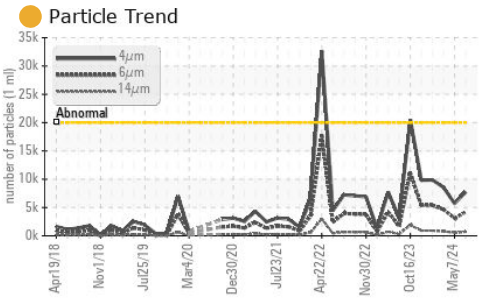
There is a moderate amount of particulates present in the oil.

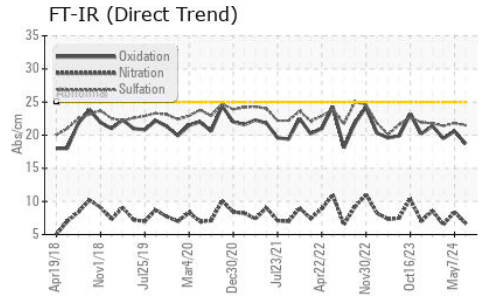
FLUID CONDITION

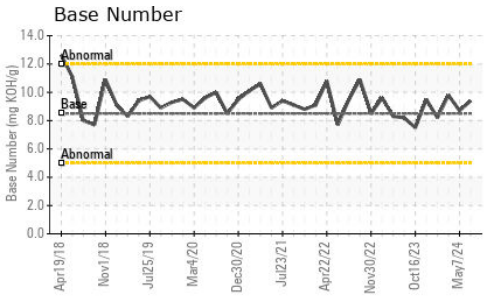
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

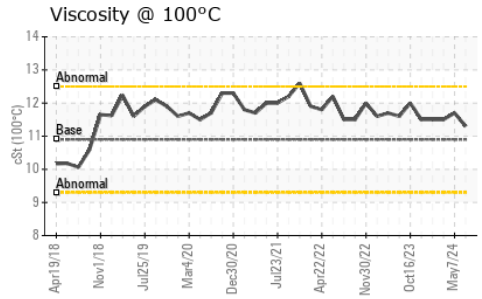
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947842	WC0939366	WC0902757
Sample Date		Client Info		21 Jun 2024	07 May 2024	06 Mar 2024
Machine Age	hrs	Client Info		14036	13774	13452
Oil Age	hrs	Client Info		270	600	278
Filter Age	hrs	Client Info		270	600	278
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	12	13	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	10	7
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	4	4
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
Silicon	ppm	ASTM D5185m	>25	11	11	11
Potassium	ppm	ASTM D5185m	>20	4	1	3
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	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.4	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.8	21.4
Particles >4µm		ASTM D7647	>20000	7743	5716	8569
Particles >6µm		ASTM D7647	>5000	4218	3114	4668
Particles >14µm		ASTM D7647	>640	718	530	794
Particles >21µm		ASTM D7647	>160	242	178	268
Particles >38µm		ASTM D7647	>40	37	28	41
Particles >71µm		ASTM D7647	>10	4	3	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/19/16	20/19/17
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	4
Boron	ppm	ASTM D5185m	250	39	29	65
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	47	49	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	469	531	697
Calcium	ppm	ASTM D5185m	3000	1576	1785	2238
Phosphorus	ppm	ASTM D5185m	1150	643	795	1045
Zinc	ppm	ASTM D5185m	1350	861	950	1220
Sulfur	ppm	ASTM D5185m	4250	2206	2890	3616
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	20.6	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	8.7	9.8
Visc @ 100°C	cSt	ASTM D445	10.9	11.3	11.7	11.5

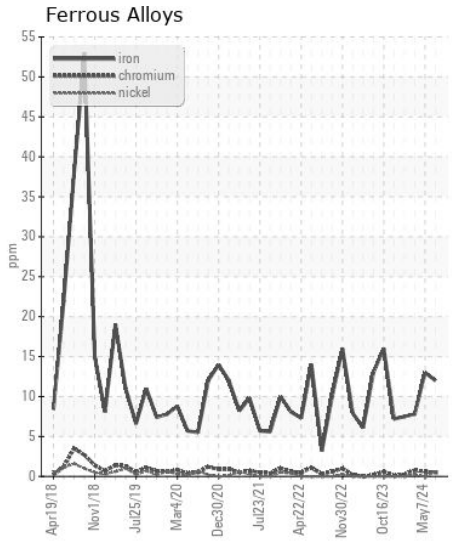


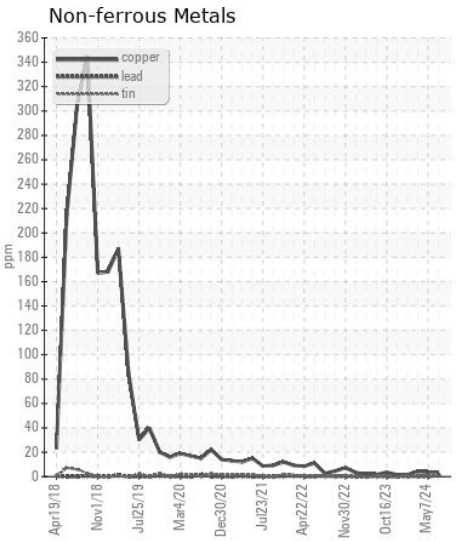


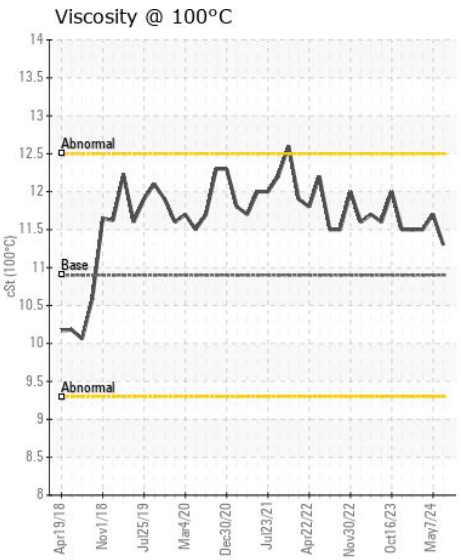


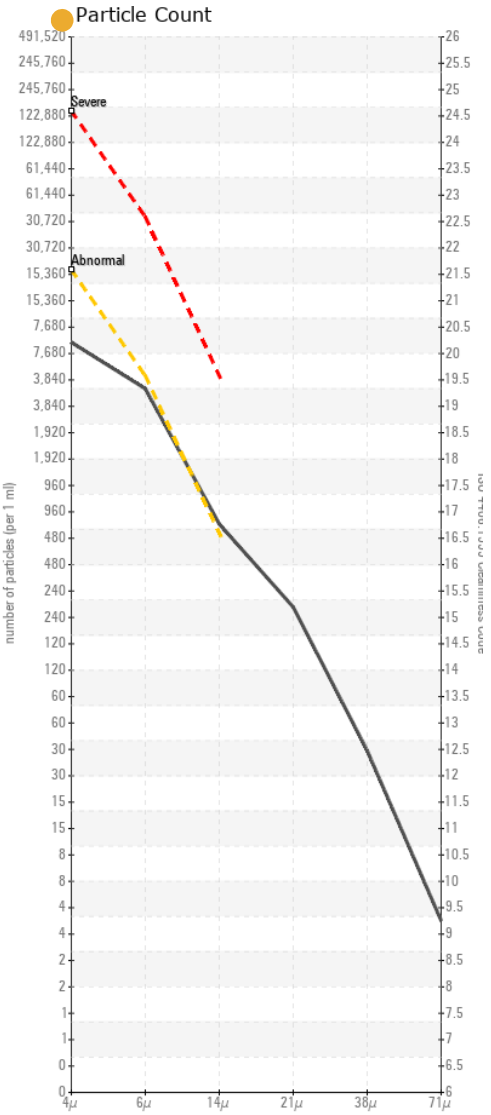


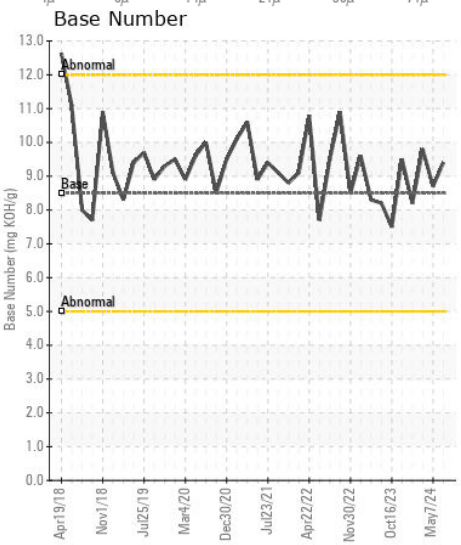












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947842 **Received** : 25 Jun 2024
Lab Number : 06219562 **Tested** : 26 Jun 2024
Unique Number : 11097759 **Diagnosed** : 26 Jun 2024 - Don Baldridge
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)

CAROLINA SUNROCK
PO BOX 25
BUTNER, NC
US 27509
Contact: Leigh Dennis
rdennis@thesunrockgroup.com
T: (919)575-4505
F: (919)575-0162