CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8025 8025
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (10 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

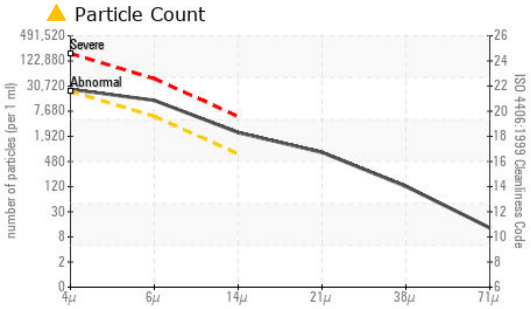
CONTAMINATION

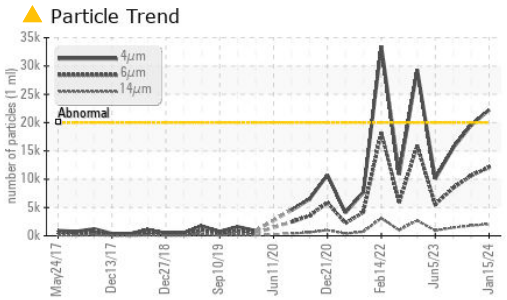
There is a high amount of particulates present in the oil.

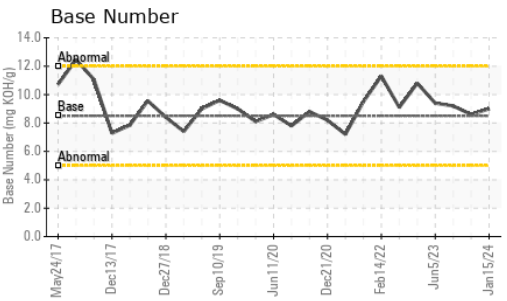
FLUID CONDITION

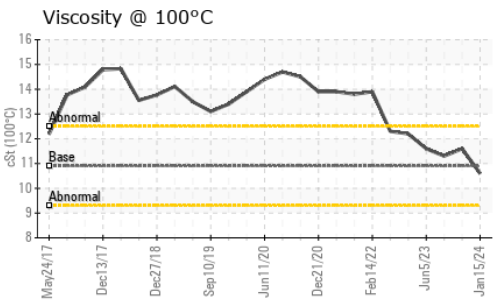
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

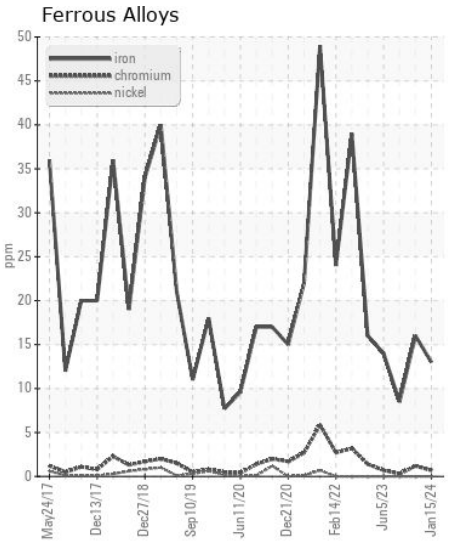
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885957	WC0861738	WC0835056
Sample Date		Client Info		15 Jan 2024	20 Nov 2023	11 Aug 2023
Machine Age	hrs	Client Info		2755	2469	1861
Oil Age	hrs	Client Info		319	617	382
Filter Age	hrs	Client Info		319	617	382
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>80	13	16	8
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	8	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	8	6	6
Potassium	ppm	ASTM D5185m	>20	2	6	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	0.5	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.8	10.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	23.2	22.1
Particles >4µm		ASTM D7647	>20000	▲ 22254	19522	15529
Particles >6µm		ASTM D7647	>5000	▲ 12123	▲ 10635	▲ 8460
Particles >14µm		ASTM D7647	>640	▲ 2063	▲ 1810	▲ 1440
Particles >21µm		ASTM D7647	>160	▲ 695	▲ 610	▲ 485
Particles >38µm		ASTM D7647	>40	▲ 107	▲ 94	▲ 75
Particles >71µm		ASTM D7647	>10	▲ 11	10	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	▲ 21/21/18	▲ 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	3	1
Boron	ppm	ASTM D5185m	250	40	14	35
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	49	44	46
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	523	558	549
Calcium	ppm	ASTM D5185m	3000	1608	1524	1694
Phosphorus	ppm	ASTM D5185m	1150	765	817	766
Zinc	ppm	ASTM D5185m	1350	941	994	981
Sulfur	ppm	ASTM D5185m	4250	2573	2829	3302
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	22.3	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.0	8.6	9.2
Visc @ 100°C	cSt	ASTM D445	10.9	10.6	11.6	11.3

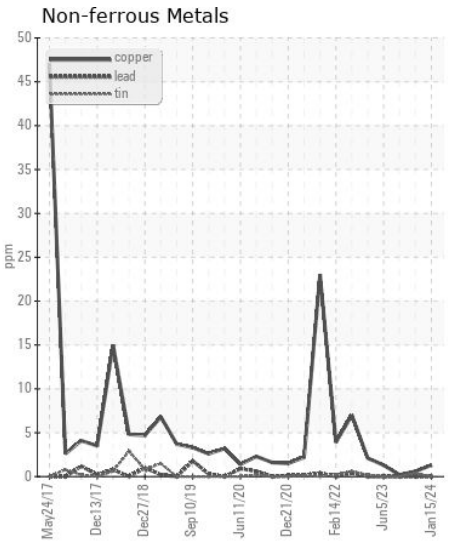


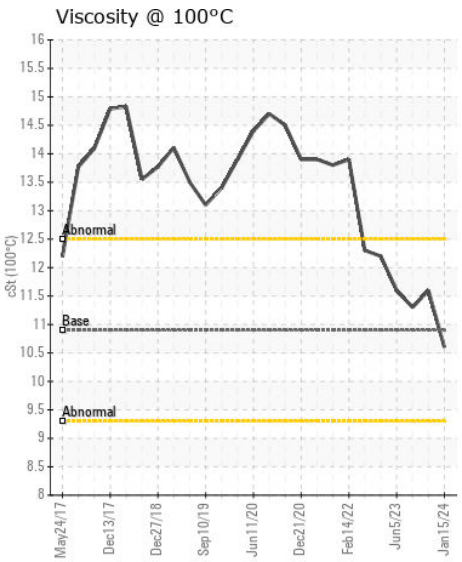


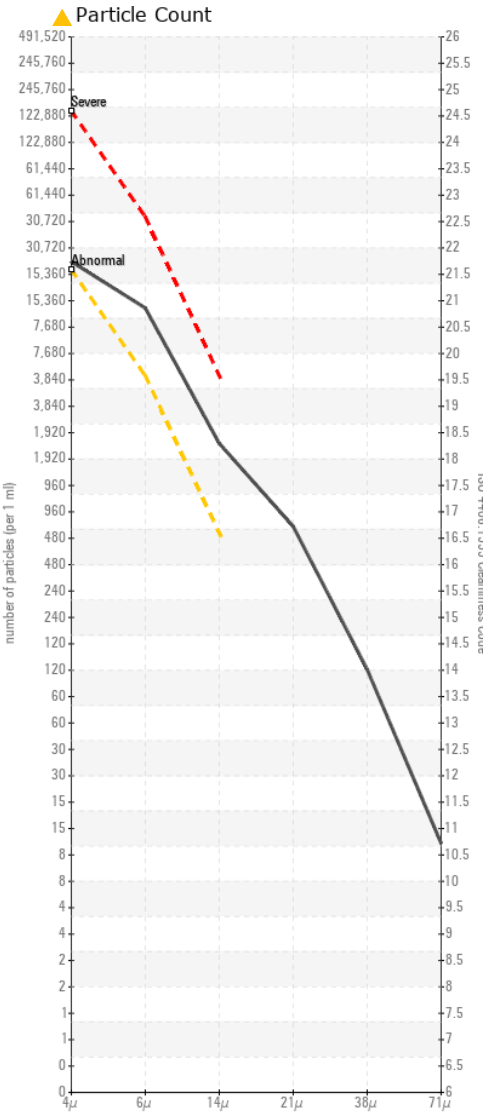


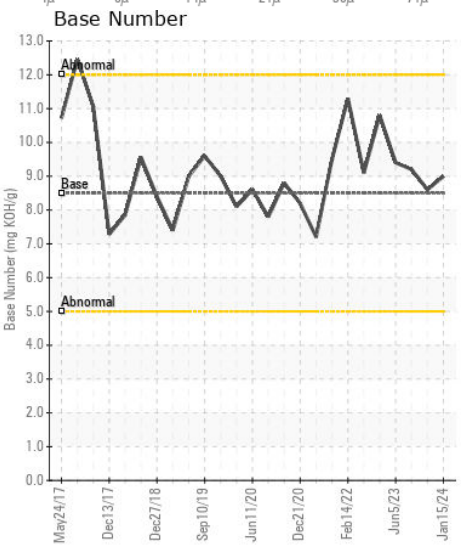












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885957 **Recieved** : 19 Jan 2024
Lab Number : 06065469 **Diagnosed** : 23 Jan 2024
Unique Number : 10836851 **Diagnostician** : 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)

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