OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8019 8019
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

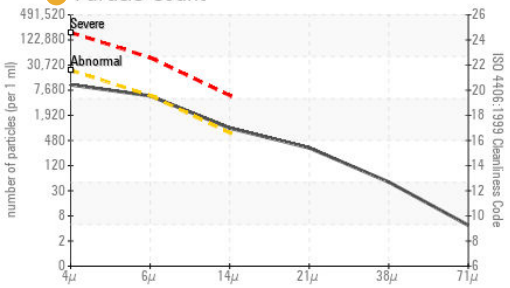
There is a moderate amount of particulates present in the oil.

FLUID CONDITION

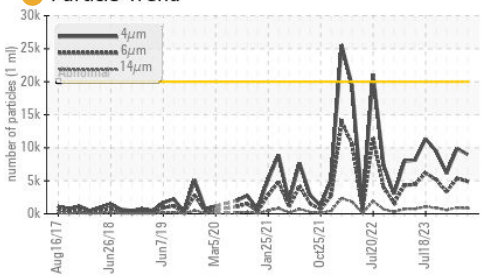
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918638	WC0861913	WC0867060
Sample Date		Client Info		19 Mar 2024	03 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		16768	16472	16166
Oil Age	hrs	Client Info		292	310	291
Filter Age	hrs	Client Info		292	310	291
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>100	7	8	3
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	6	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	8	9	6
Potassium	ppm	ASTM D5185m	>20	0	<1	0
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	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.7	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.8	21.5
Particles >4µm		ASTM D7647	>20000	8995	9891	6116
Particles >6µm		ASTM D7647	>5000	4900	5388	3332
Particles >14µm		ASTM D7647	>640	834	917	567
Particles >21µm		ASTM D7647	>160	281	309	191
Particles >38µm		ASTM D7647	>40	43	48	29
Particles >71µm		ASTM D7647	>10	4	5	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/20/17	20/19/16
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	2	2
Boron	ppm	ASTM D5185m		50	40	54
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	49	45
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		513	522	465
Calcium	ppm	ASTM D5185m		1680	1688	1531
Phosphorus	ppm	ASTM D5185m		750	740	707
Zinc	ppm	ASTM D5185m		894	946	846
Sulfur	ppm	ASTM D5185m		2718	2537	2357
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	20.8	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.2	9.0	9.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.5	11.4

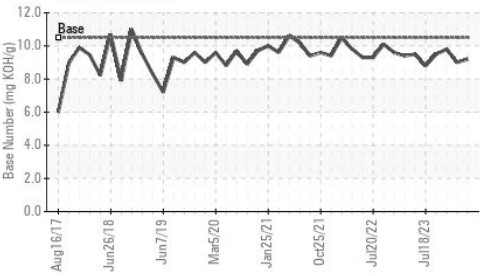
Particle Count



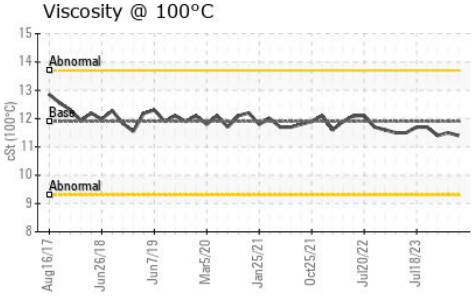
Particle Trend



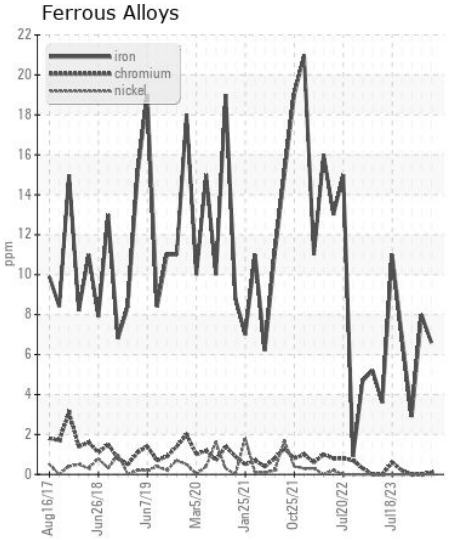
Base Number



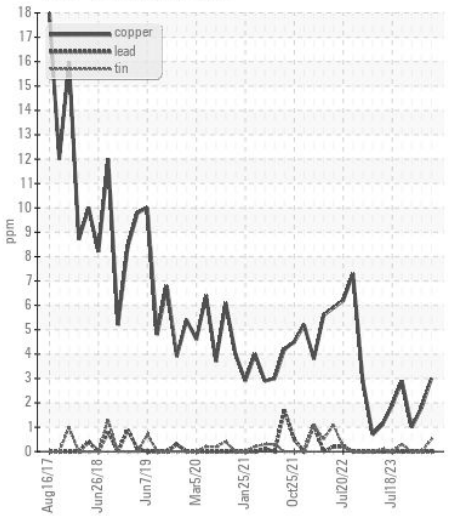
Viscosity @ 100°C



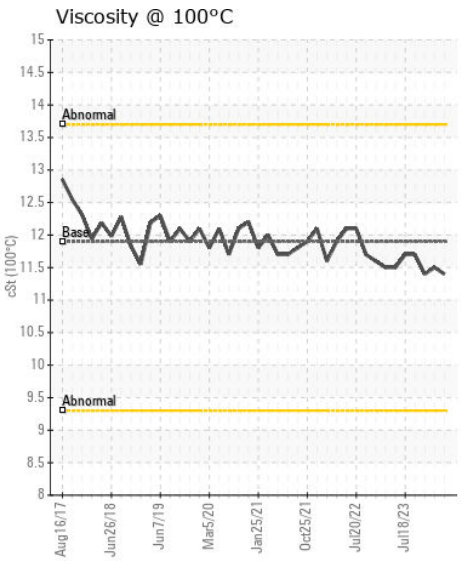
Ferrous Alloys



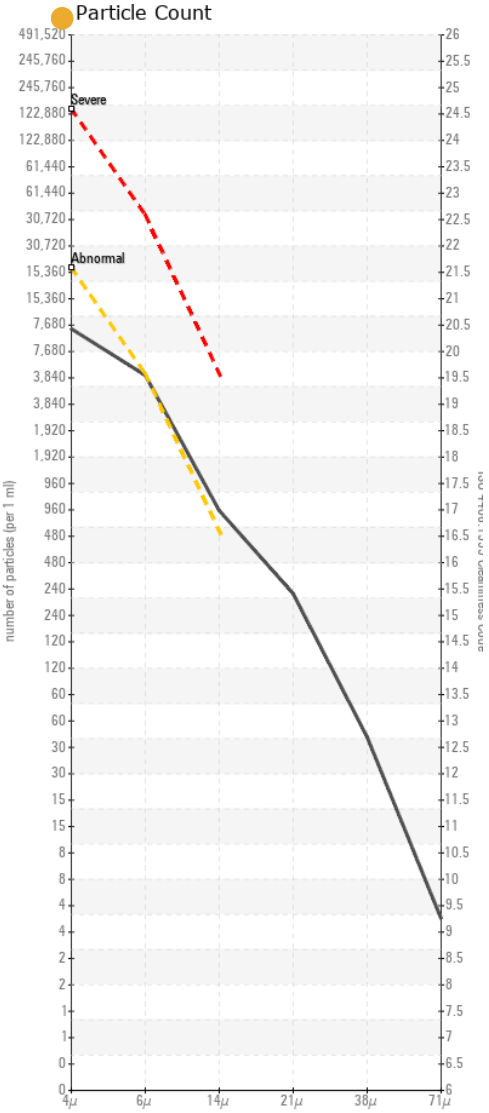
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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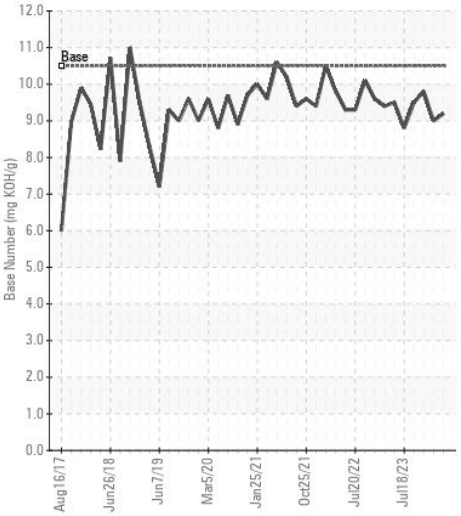

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918638 **Received** : 21 Mar 2024
Lab Number : 06125567 **Tested** : 22 Mar 2024
Unique Number : 10939718 **Diagnosed** : 25 Mar 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)

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