CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8114 8114
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

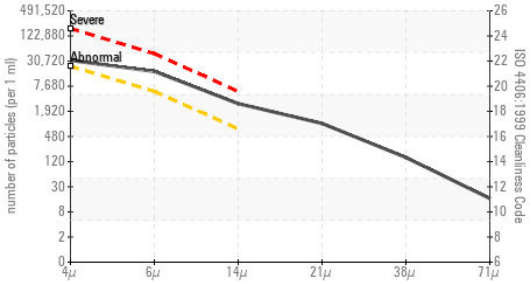
There is a high amount of particulates present in the oil.

FLUID CONDITION

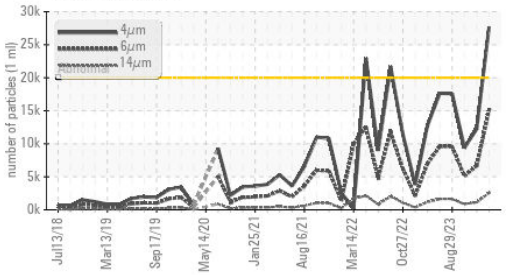
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861940	WC0861730	WC0862042
Sample Date		Client Info		09 Jan 2024	21 Nov 2023	03 Oct 2023
Machine Age	hrs	Client Info		12243	11997	11643
Oil Age	hrs	Client Info		246	391	262
Filter Age	hrs	Client Info		246	391	262
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>100	4	9	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	8	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	11	9
Potassium	ppm	ASTM D5185m	>20	0	2	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	0.2	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.4	8.5	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.3	21.3
Particles >4µm		ASTM D7647	>20000	▲ 27679	12266	9370
Particles >6µm		ASTM D7647	>5000	▲ 15078	▲ 6682	▲ 5104
Particles >14µm		ASTM D7647	>640	▲ 2566	▲ 1137	▲ 869
Particles >21µm		ASTM D7647	>160	▲ 864	▲ 383	▲ 293
Particles >38µm		ASTM D7647	>40	▲ 133	▲ 59	▲ 45
Particles >71µm		ASTM D7647	>10	▲ 14	6	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/19	▲ 21/20/17	▲ 20/20/17
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		0	4	3
Boron	ppm	ASTM D5185m		45	29	42
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	51	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		497	507	594
Calcium	ppm	ASTM D5185m		1541	1696	1892
Phosphorus	ppm	ASTM D5185m		718	695	796
Zinc	ppm	ASTM D5185m		902	925	1028
Sulfur	ppm	ASTM D5185m		2403	2200	2995
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	21.4	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.7	8.9	9.2
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.7	11.4

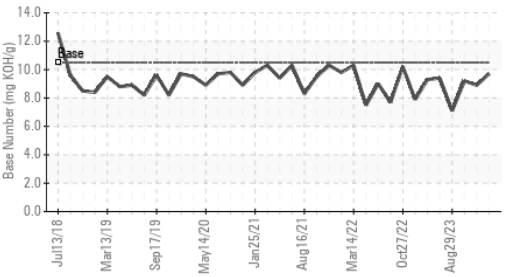
Particle Count



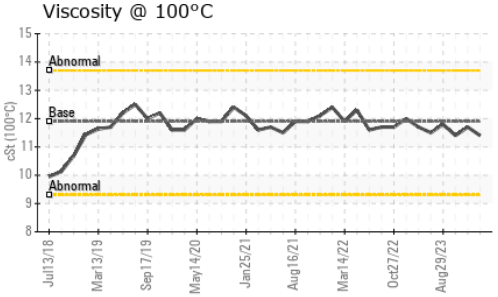
Particle Trend



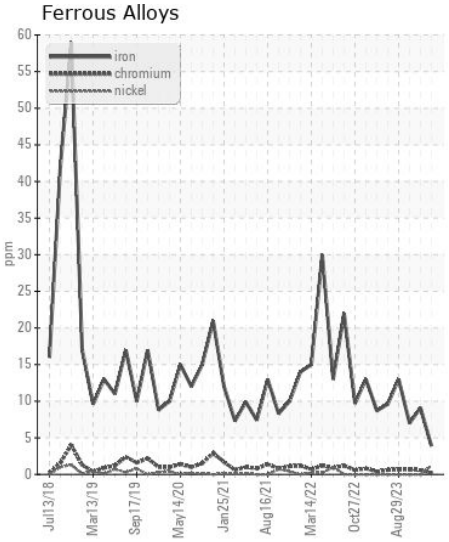
Base Number



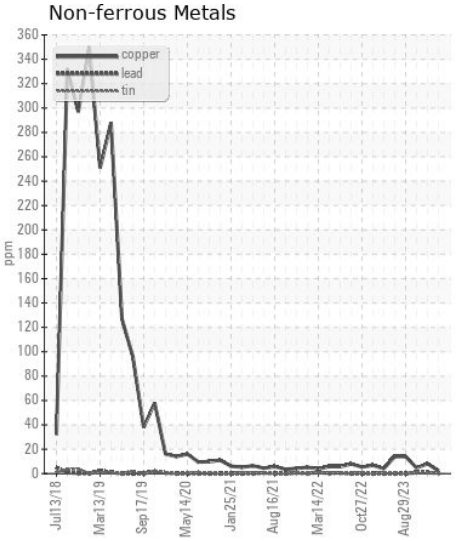
Viscosity @ 100°C



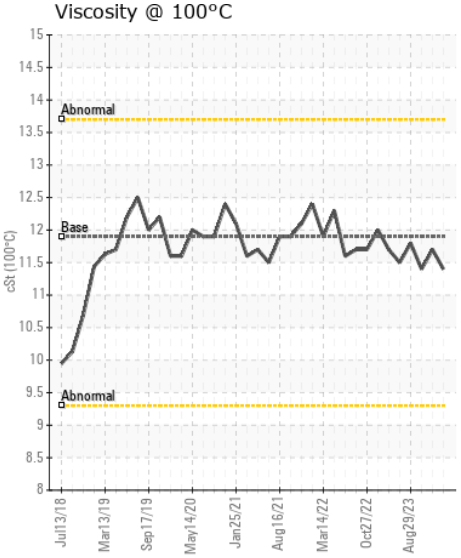
Ferrous Alloys



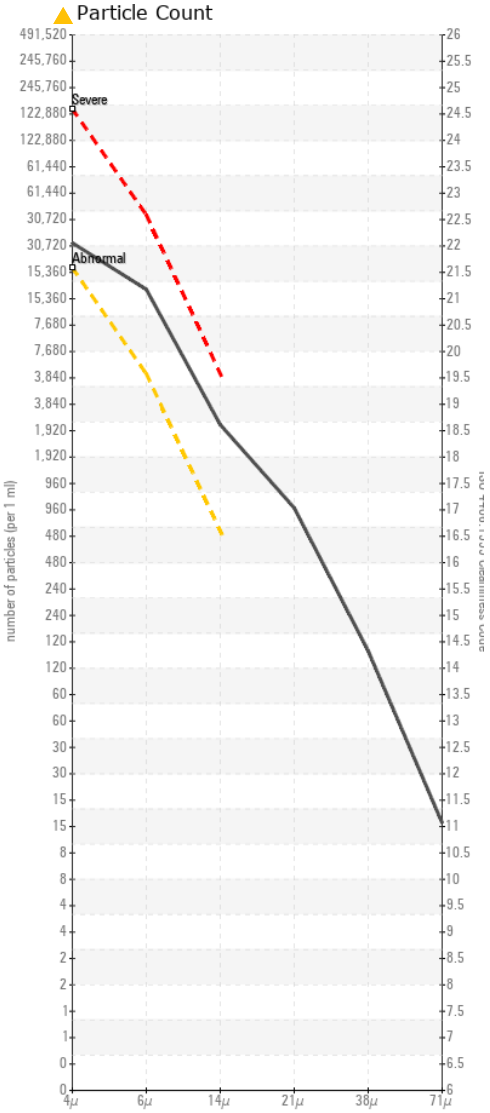
Non-ferrous Metals



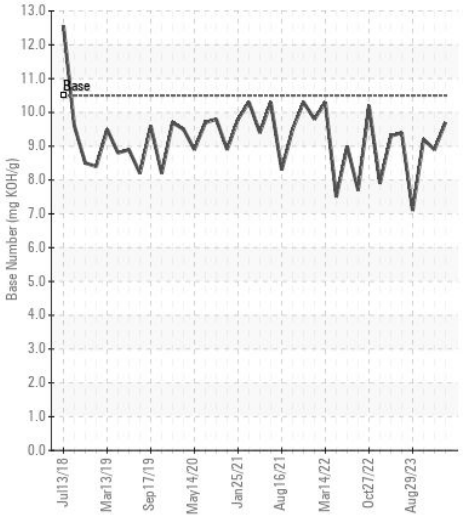
Viscosity @ 100°C



Particle Count



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861940 **Recieved** : 11 Jan 2024
Lab Number : 06057951 **Diagnosed** : 12 Jan 2024
Unique Number : 10829333 **Diagnostician** : 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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