CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6467 6467
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- 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

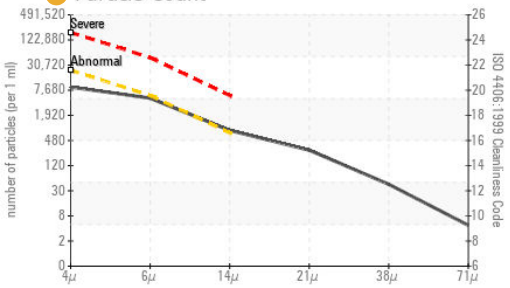
There is a moderate amount of particulates present in the oil.

FLUID CONDITION

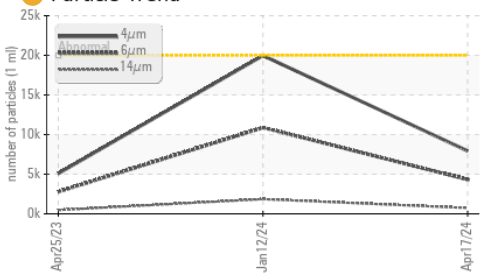
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919134	WC0885951	WC0765146
Sample Date		Client Info		17 Apr 2024	12 Jan 2024	25 Apr 2023
Machine Age	hrs	Client Info		1000	640	46
Oil Age	hrs	Client Info		350	339	46
Filter Age	hrs	Client Info		350	339	46
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>65	28	34	20
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>5	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>35	8	11	6
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>180	16	27	31
Tin	ppm	ASTM D5185m	>8	<1	1	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	>15	5	6	7
Potassium	ppm	ASTM D5185m	>20	24	50	20
Fuel		WC Method	>3.0	<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	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.2	5.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	18.7	20.0
Particles >4µm		ASTM D7647	>20000	7934	19974	5089
Particles >6µm		ASTM D7647	>5000	4322	▲ 10881	2772
Particles >14µm		ASTM D7647	>640	● 736	▲ 1852	472
Particles >21µm		ASTM D7647	>160	● 248	▲ 624	159
Particles >38µm		ASTM D7647	>40	38	▲ 96	25
Particles >71µm		ASTM D7647	>10	4	10	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	▲ 21/21/18	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		4	8	1
Boron	ppm	ASTM D5185m		44	11	77
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		50	59	42
Manganese	ppm	ASTM D5185m		1	2	3
Magnesium	ppm	ASTM D5185m		605	896	475
Calcium	ppm	ASTM D5185m		1553	1109	1658
Phosphorus	ppm	ASTM D5185m		802	1042	749
Zinc	ppm	ASTM D5185m		969	1272	892
Sulfur	ppm	ASTM D5185m		2796	3093	2491
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	14.1	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	7.7	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.6	12.5	9.5

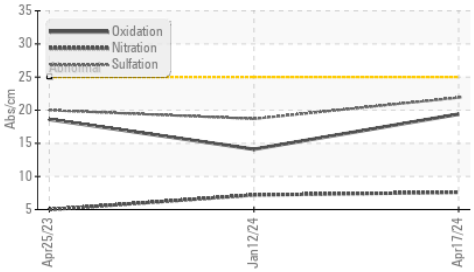
Particle Count



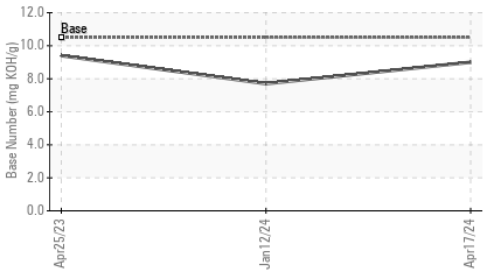
Particle Trend



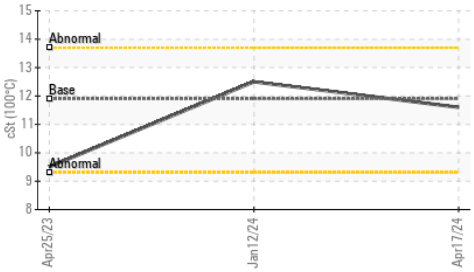
FT-IR (Direct Trend)



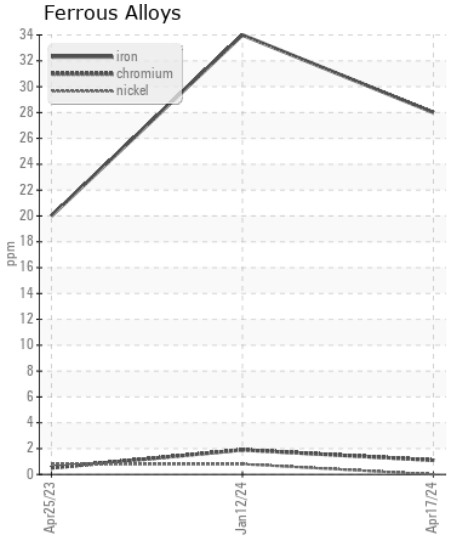
Base Number



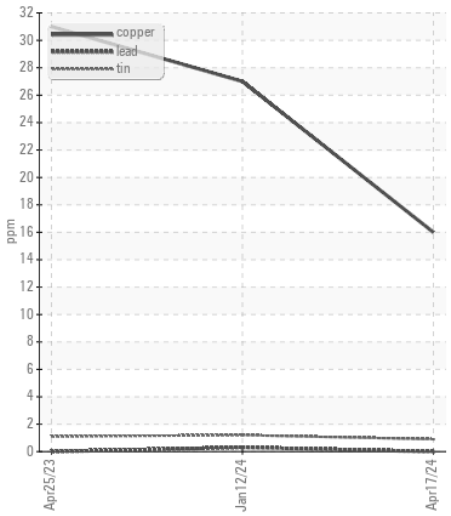
Viscosity @ 100°C



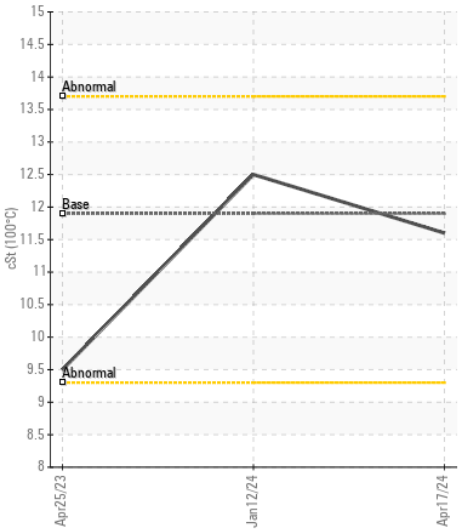
Ferrous Alloys



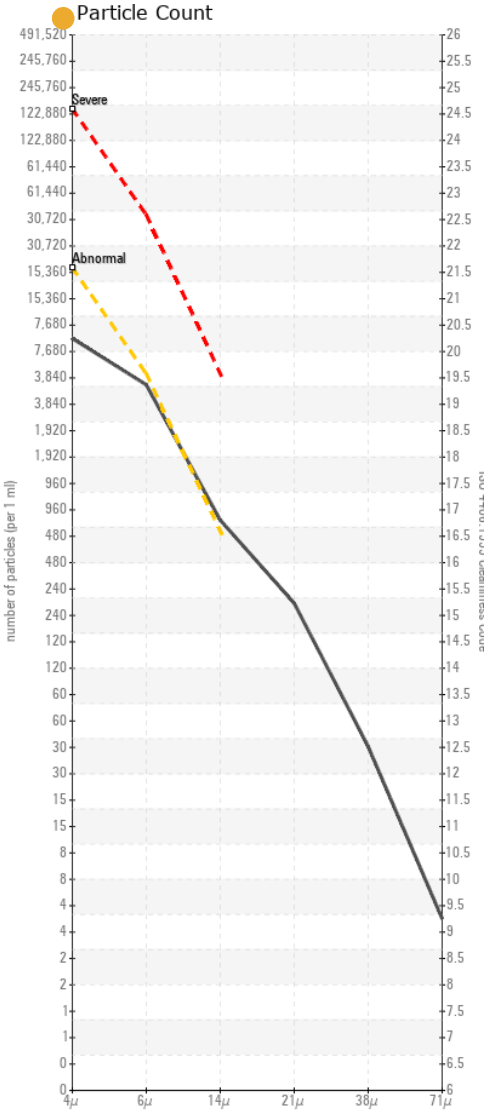
Non-ferrous Metals



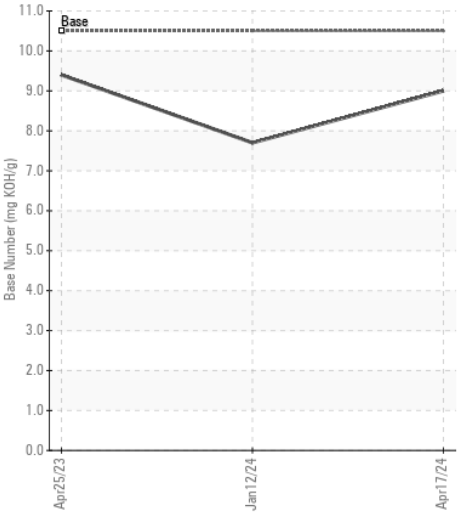
Viscosity @ 100°C



Particle Count



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919134 **Received** : 22 Apr 2024
Lab Number : 06156807 **Tested** : 24 Apr 2024
Unique Number : 10992230 **Diagnosed** : 24 Apr 2024 - Sean Felton
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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