CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6426 6426
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

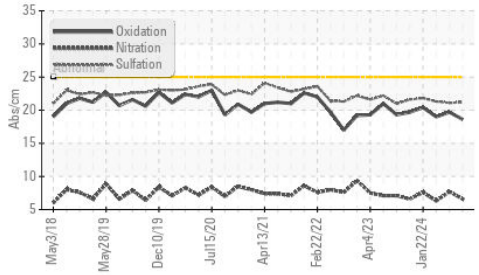
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

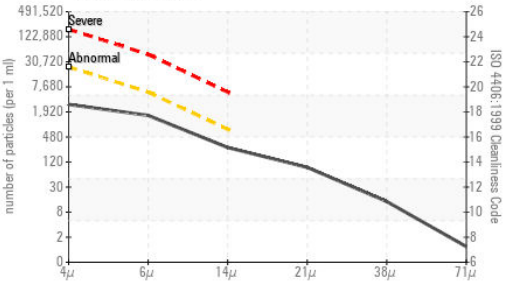
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937859	WC0937899	WC0861760
Sample Date		Client Info		02 Jul 2024	03 May 2024	05 Mar 2024
Machine Age	hrs	Client Info		12546	12253	11930
Oil Age	hrs	Client Info		293	583	260
Filter Age	hrs	Client Info		293	583	260
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>65	9	10	7
Chromium	ppm	ASTM D5185m	>5	<1	1	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>35	8	5	4
Lead	ppm	ASTM D5185m	>10	0	2	0
Copper	ppm	ASTM D5185m	>180	4	4	4
Tin	ppm	ASTM D5185m	>8	0	2	0
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	>15	5	7	7
Potassium	ppm	ASTM D5185m	>20	2	4	<1
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	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.7	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.1	21.3
Particles >4µm		ASTM D7647	>20000	2540	8012	11892
Particles >6µm		ASTM D7647	>5000	1384	4365	6478
Particles >14µm		ASTM D7647	>640	236	743	1103
Particles >21µm		ASTM D7647	>160	79	250	371
Particles >38µm		ASTM D7647	>40	12	39	57
Particles >71µm		ASTM D7647	>10	1	4	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	20/19/17	21/20/17
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		5	3	2
Boron	ppm	ASTM D5185m		54	35	55
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	44	49
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		463	538	494
Calcium	ppm	ASTM D5185m		1722	1789	1686
Phosphorus	ppm	ASTM D5185m		694	826	715
Zinc	ppm	ASTM D5185m		795	956	859
Sulfur	ppm	ASTM D5185m		2488	3014	2422
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	19.7	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.6	8.9	9.3
Visc @ 100°C	cSt	ASTM D445	11.9	11.1	11.3	11.1

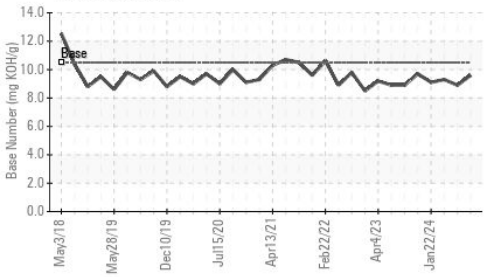
FT-IR (Direct Trend)



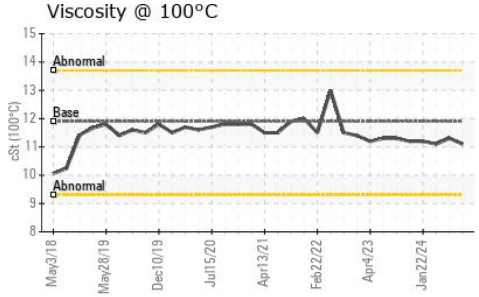
Particle Count



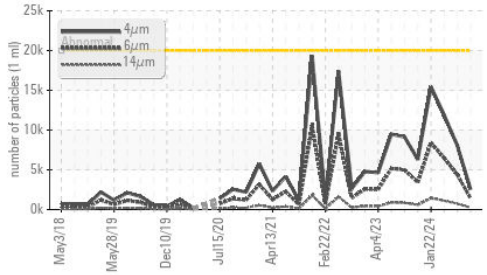
Base Number



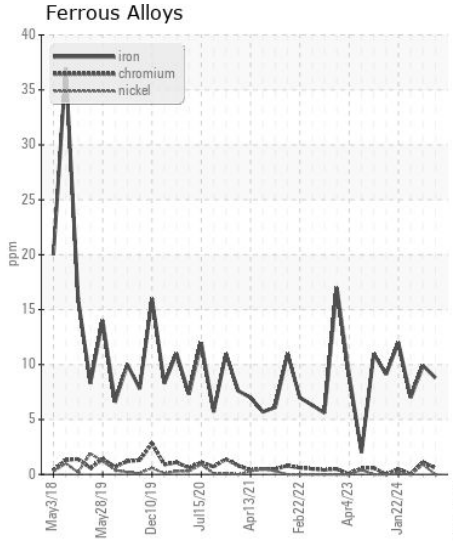
Viscosity @ 100°C



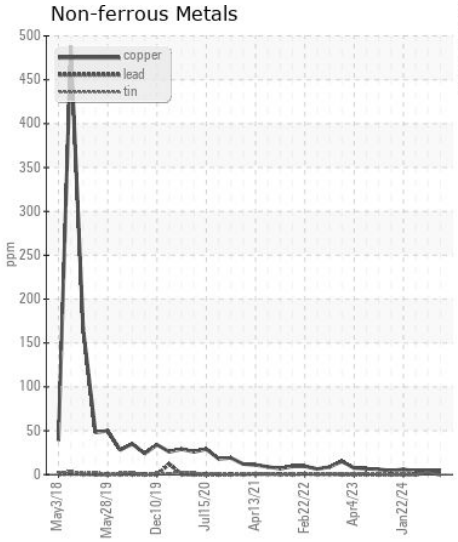
Particle Trend



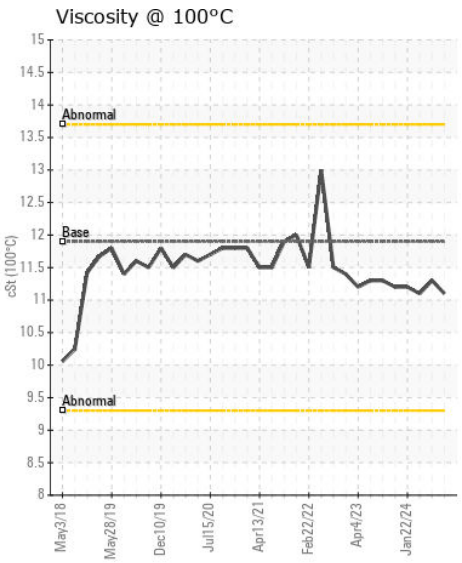
Ferrous Alloys



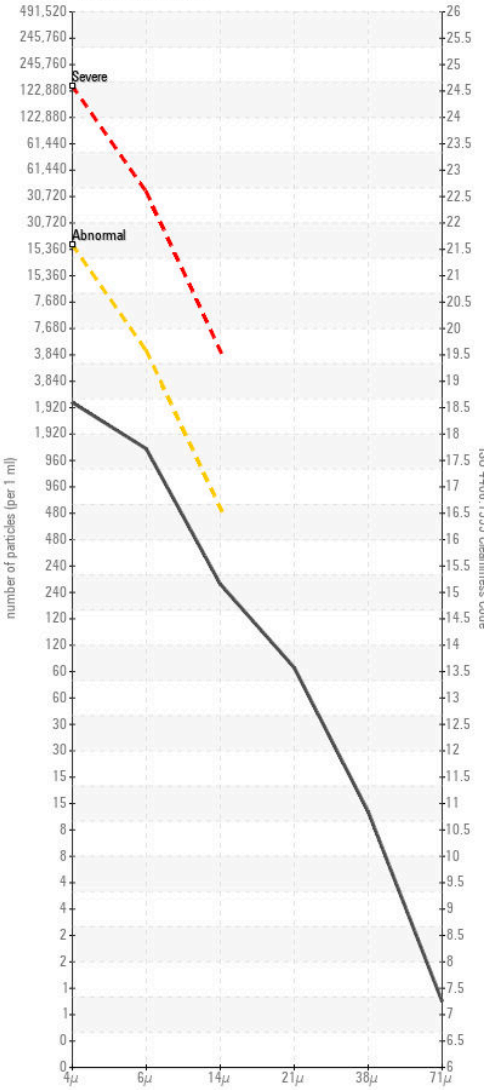
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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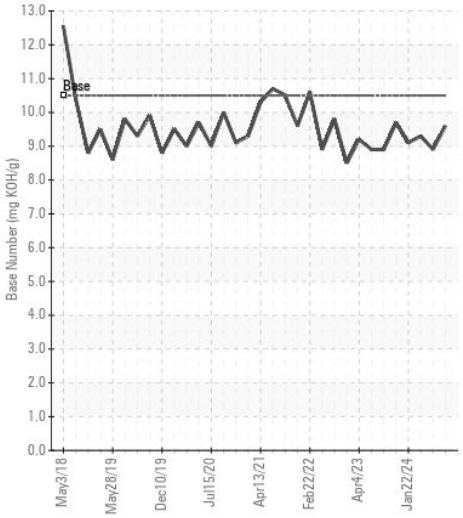

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937859 **Received** : 05 Jul 2024
Lab Number : 06228408 **Tested** : 09 Jul 2024
Unique Number : 11111901 **Diagnosed** : 09 Jul 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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