CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6437 6437
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

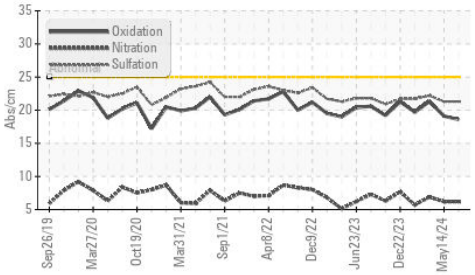
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

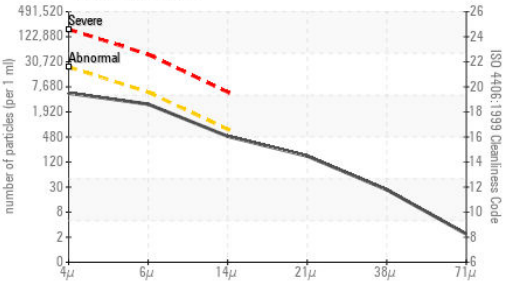
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0937866**	WC0939328	WC0918609
Sample Date		Client Info		**15 Jul 2024**	14 May 2024	26 Mar 2024
Machine Age	hrs	Client Info		**10682**	10401	10097
Oil Age	hrs	Client Info		**282**	304	541
Filter Age	hrs	Client Info		**282**	304	541
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Filter Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	**5**	6	8
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**3**	4	3
Lead	ppm	ASTM D5185m	>40	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>330	**11**	15	15
Tin	ppm	ASTM D5185m	>15	**1**	2	2
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**6**	7	7
Potassium	ppm	ASTM D5185m	>20	**4**	5	4
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**	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**6.2**	6.2	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.3**	21.3	22.2
Particles >4µm		ASTM D7647	>20000	**4715**	4045	7438
Particles >6µm		ASTM D7647	>5000	**2569**	2204	4052
Particles >14µm		ASTM D7647	>640	**437**	375	690
Particles >21µm		ASTM D7647	>160	**147**	126	232
Particles >38µm		ASTM D7647	>40	**23**	20	36
Particles >71µm		ASTM D7647	>10	**2**	2	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**19/19/16**	19/18/16	20/19/17
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**	3	1
Boron	ppm	ASTM D5185m		**44**	65	56
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**46**	66	48
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**486**	688	505
Calcium	ppm	ASTM D5185m		**1616**	2271	1743
Phosphorus	ppm	ASTM D5185m		**753**	1135	745
Zinc	ppm	ASTM D5185m		**917**	1289	930
Sulfur	ppm	ASTM D5185m		**2567**	4192	2450
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.6**	19.1	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	**9.6**	9.4	9.2
Visc @ 100°C	cSt	ASTM D445	11.9	**11.1**	11.2	11.4

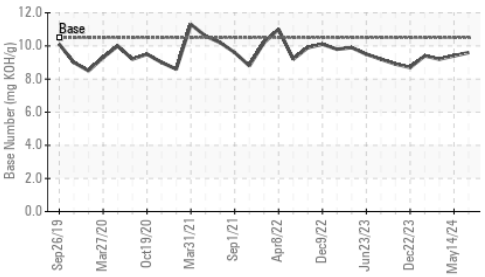
FT-IR (Direct Trend)



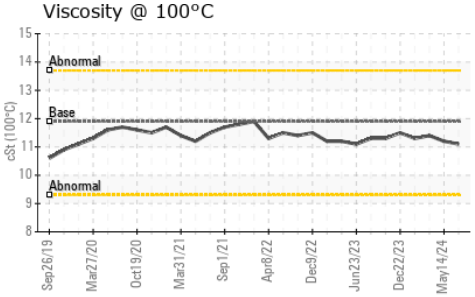
Particle Count



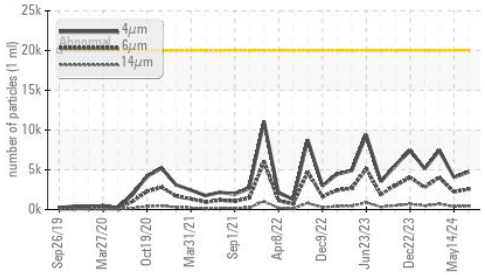
Base Number



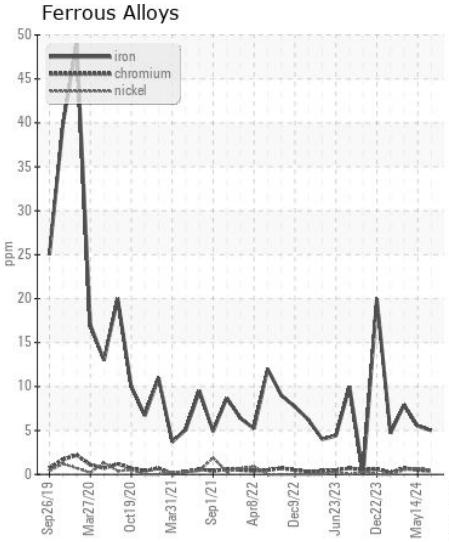
Viscosity @ 100°C



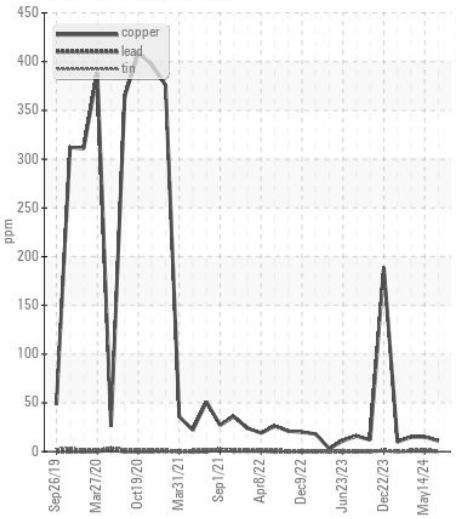
Particle Trend



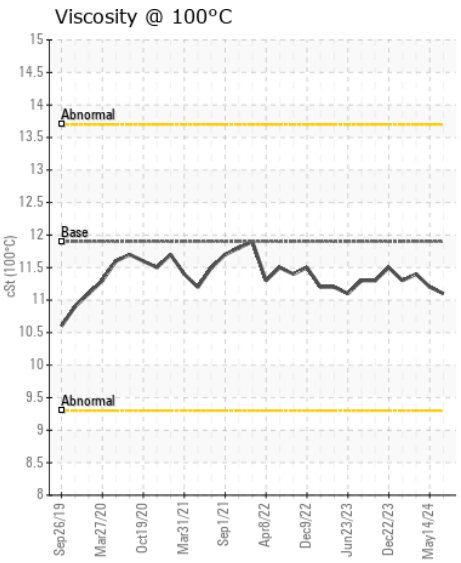
Ferrous Alloys



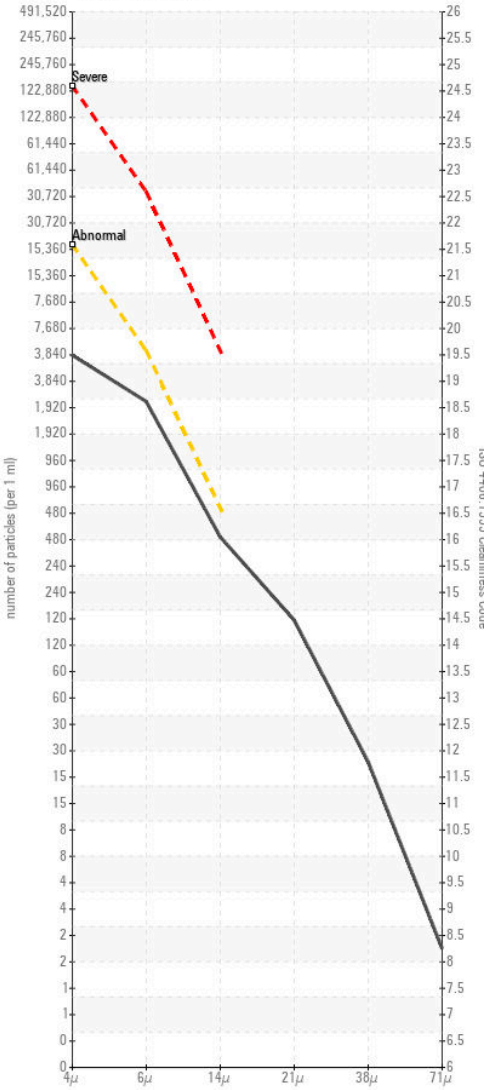
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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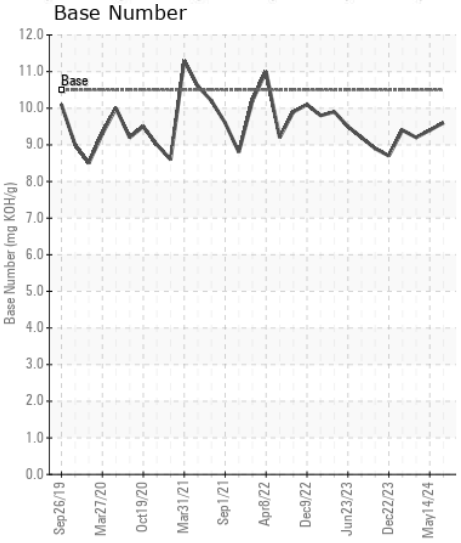

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937866 **Received** : 17 Jul 2024
Lab Number : 06239019 **Tested** : 18 Jul 2024
Unique Number : 11127853 **Diagnosed** : 18 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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