CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6406 6406
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

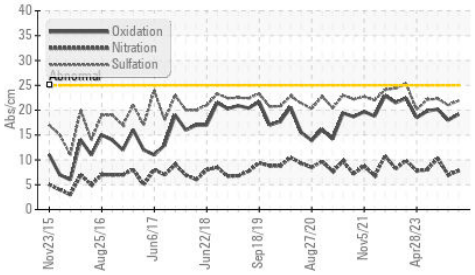
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

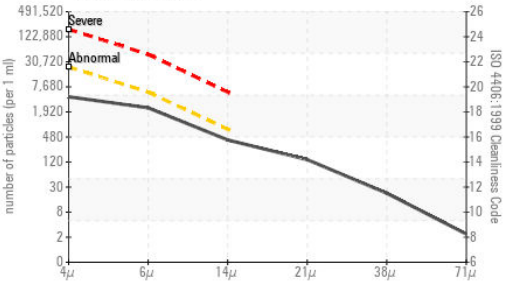
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0939417**	WC0861557	WC0861967
Sample Date		Client Info		**21 May 2024**	13 Mar 2024	13 Oct 2023
Machine Age	hrs	Client Info		**17216**	16817	15887
Oil Age	hrs	Client Info		**399**	930	502
Filter Age	hrs	Client Info		**399**	930	502
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	**31**	44	47
Chromium	ppm	ASTM D5185m	>20	**1**	<1	2
Nickel	ppm	ASTM D5185m	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**14**	17	24
Lead	ppm	ASTM D5185m	>40	**<1**	0	<1
Copper	ppm	ASTM D5185m	>330	**4**	4	4
Tin	ppm	ASTM D5185m	>15	**1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**9**	7	9
Potassium	ppm	ASTM D5185m	>20	**7**	11	26
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	**0.9**	0.6	1.4
Nitration	Abs/cm	*ASTM D7624	>20	**7.8**	7.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.9**	21.0	22.3
Particles >4µm		ASTM D7647	>20000	**3862**	6542	9288
Particles >6µm		ASTM D7647	>5000	**2104**	3564	5060
Particles >14µm		ASTM D7647	>640	**358**	607	861
Particles >21µm		ASTM D7647	>160	**121**	204	290
Particles >38µm		ASTM D7647	>40	**19**	32	45
Particles >71µm		ASTM D7647	>10	**2**	3	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**19/18/16**	20/19/16	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		**2**	2	2
Boron	ppm	ASTM D5185m		**48**	49	22
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**51**	44	50
Manganese	ppm	ASTM D5185m		**<1**	<1	1
Magnesium	ppm	ASTM D5185m		**542**	494	597
Calcium	ppm	ASTM D5185m		**1751**	1516	1774
Phosphorus	ppm	ASTM D5185m		**853**	763	841
Zinc	ppm	ASTM D5185m		**995**	890	1083
Sulfur	ppm	ASTM D5185m		**3003**	2936	2986
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.2**	18.0	20.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	**9.7**	10.0	8.5
Visc @ 100°C	cSt	ASTM D445	11.9	**11.5**	10.8	11.9

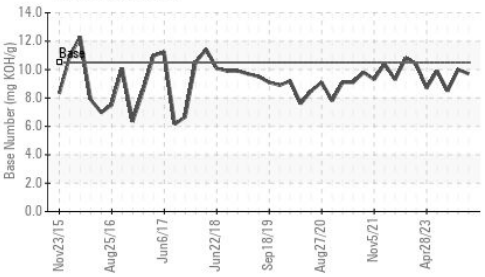
FT-IR (Direct Trend)



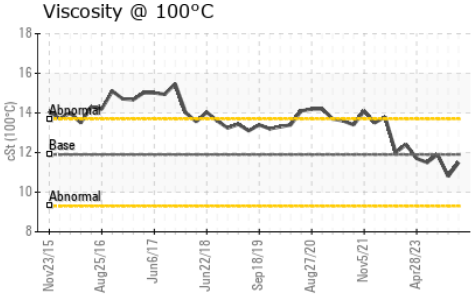
Particle Count



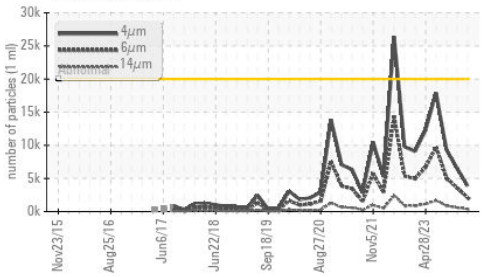
Base Number



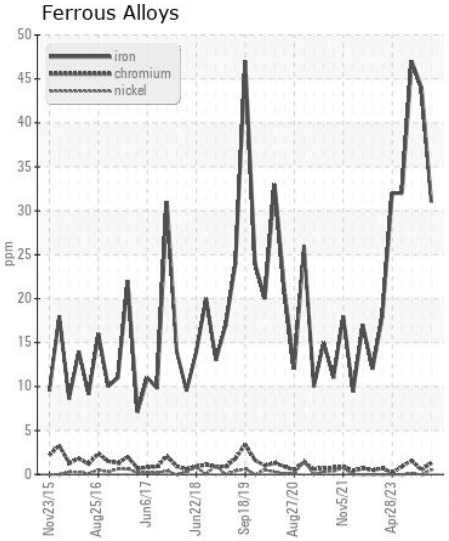
Viscosity @ 100°C



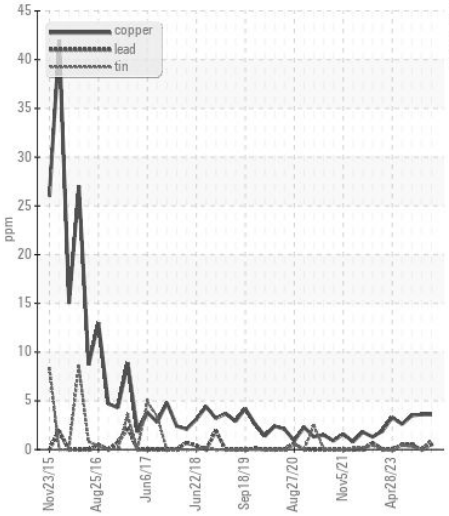
Particle Trend



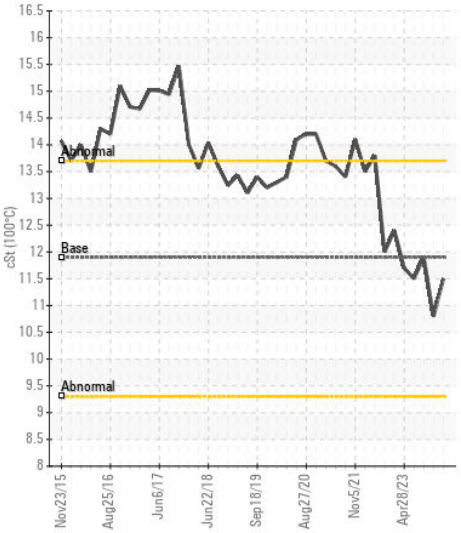
Ferrous Alloys



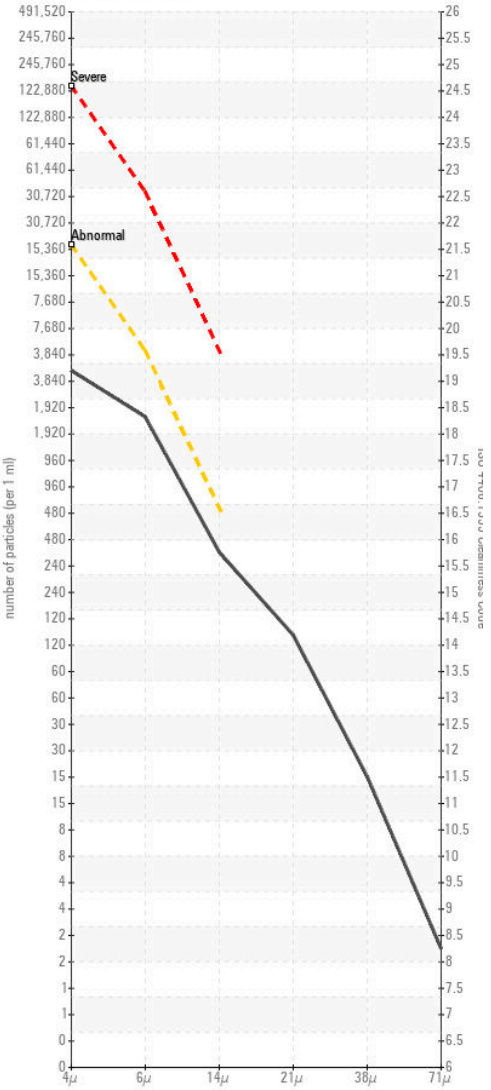
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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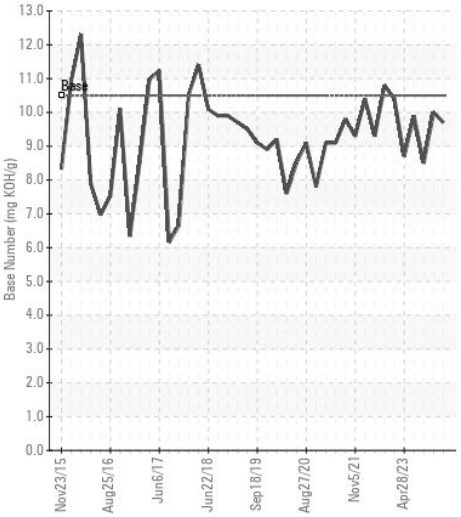

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939417 **Received** : 23 May 2024
Lab Number : 06189095 **Tested** : 28 May 2024
Unique Number : 11045847 **Diagnosed** : 28 May 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)

CAROLINA SUNROCK
PO BOX 25
BUTNER, NC
US 27509
Contact: Leigh Dennis
rdennis@thesunrockgroup.com
T: (919)575-4505
F: (919)575-0162