CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

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

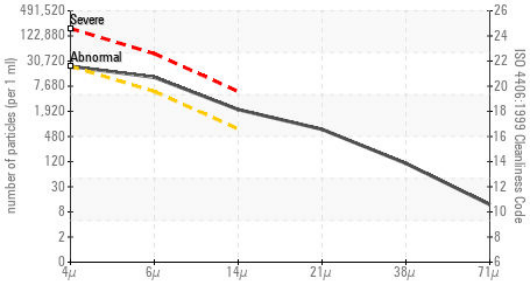
There is a high amount of particulates present in the oil. Test for glycol is negative.

FLUID CONDITION

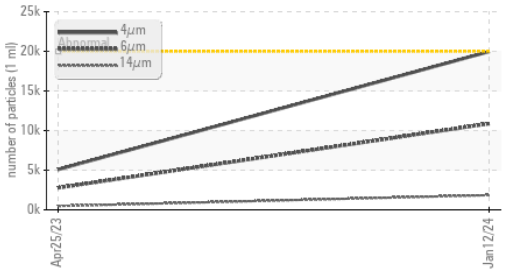
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885951	WC0765146	---
Sample Date		Client Info		12 Jan 2024	25 Apr 2023	---
Machine Age	hrs	Client Info		640	46	---
Oil Age	hrs	Client Info		339	46	---
Filter Age	hrs	Client Info		339	46	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>65	34	20	---
Chromium	ppm	ASTM D5185m	>5	2	<1	---
Nickel	ppm	ASTM D5185m	>3	<1	<1	---
Titanium	ppm	ASTM D5185m	>5	<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>35	11	6	---
Lead	ppm	ASTM D5185m	>10	<1	0	---
Copper	ppm	ASTM D5185m	>180	27	31	---
Tin	ppm	ASTM D5185m	>8	1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>15	6	7	---
Potassium	ppm	ASTM D5185m	>20	50	20	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.2	5.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.0	---
Particles >4µm		ASTM D7647	>20000	19974	5089	---
Particles >6µm		ASTM D7647	>5000	▲ 10881	2772	---
Particles >14µm		ASTM D7647	>640	▲ 1852	472	---
Particles >21µm		ASTM D7647	>160	▲ 624	159	---
Particles >38µm		ASTM D7647	>40	▲ 96	25	---
Particles >71µm		ASTM D7647	>10	10	3	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/21/18	20/19/16	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		8	1	---
Boron	ppm	ASTM D5185m		11	77	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		59	42	---
Manganese	ppm	ASTM D5185m		2	3	---
Magnesium	ppm	ASTM D5185m		896	475	---
Calcium	ppm	ASTM D5185m		1109	1658	---
Phosphorus	ppm	ASTM D5185m		1042	749	---
Zinc	ppm	ASTM D5185m		1272	892	---
Sulfur	ppm	ASTM D5185m		3093	2491	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	18.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	7.7	9.4	---
Visc @ 100°C	cSt	ASTM D445	11.9	12.5	9.5	---

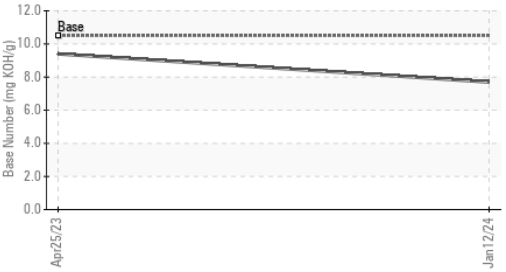
Particle Count



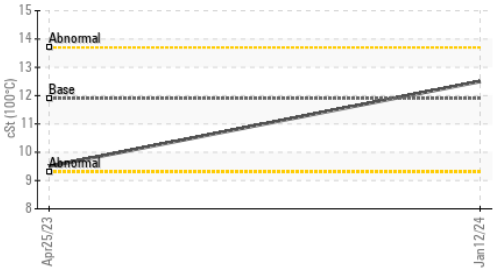
Particle Trend



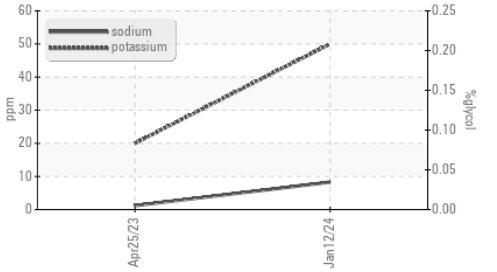
Base Number



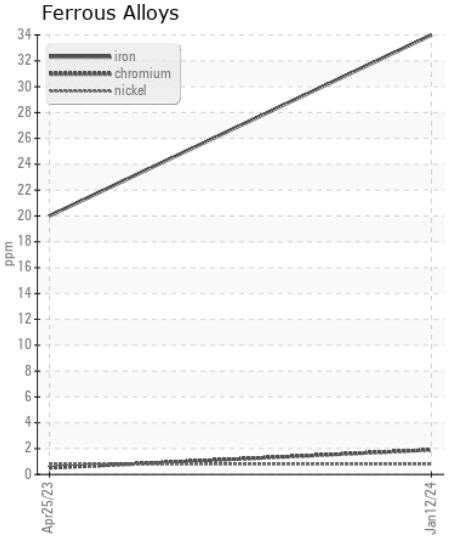
Viscosity @ 100°C



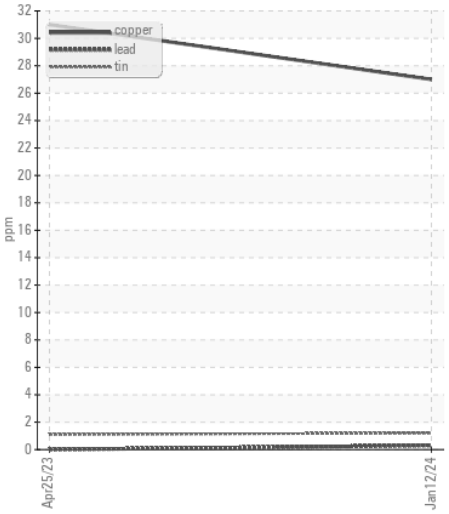
Glycol Contamination



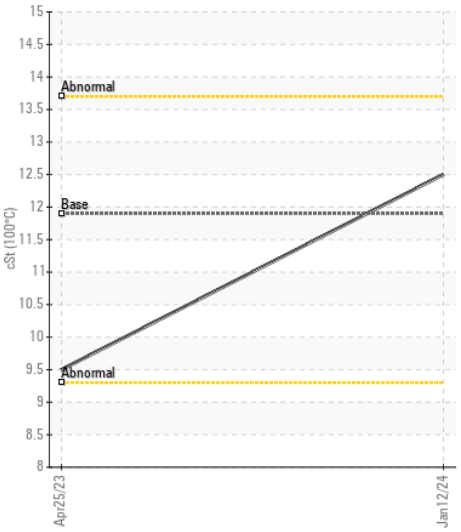
Ferrous Alloys



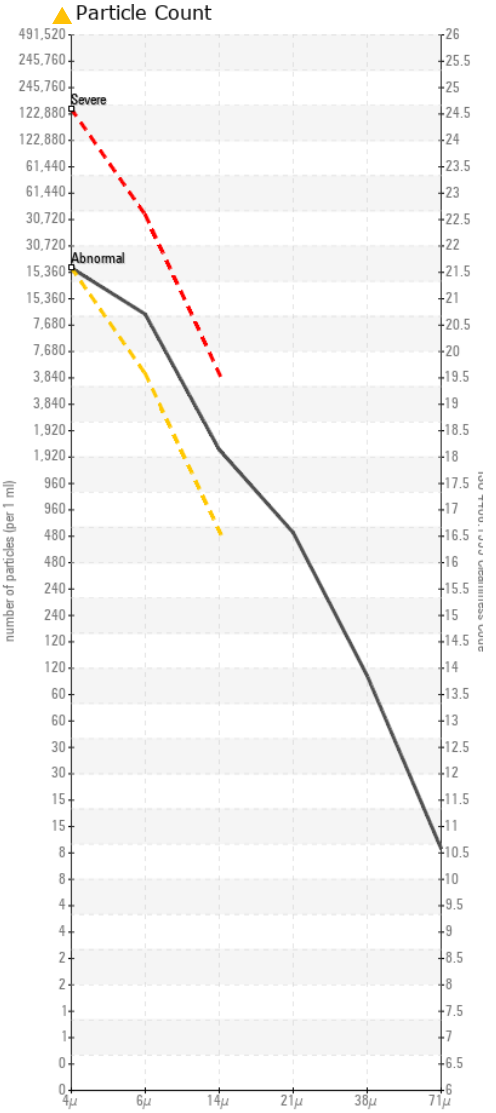
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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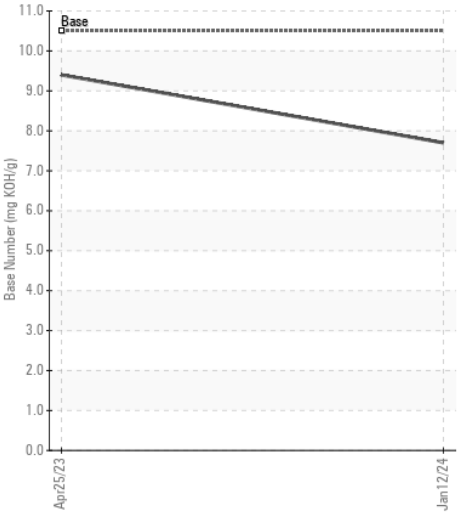

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885951 **Recieved** : 18 Jan 2024
Lab Number : 06064172 **Diagnosed** : 22 Jan 2024
Unique Number : 10835554 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: Glycol, 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