CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
5009 5009
Component
Steering
Fluid
MOBIL DELVAC 1300 SUPER15W40 (17 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The 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

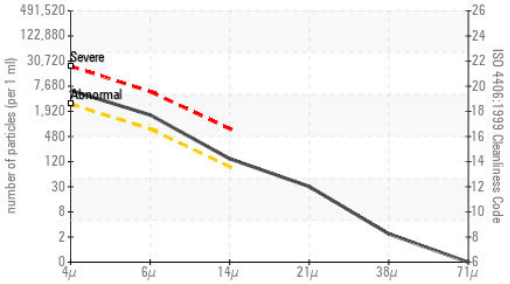
There is a high amount of particulates present in the fluid. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

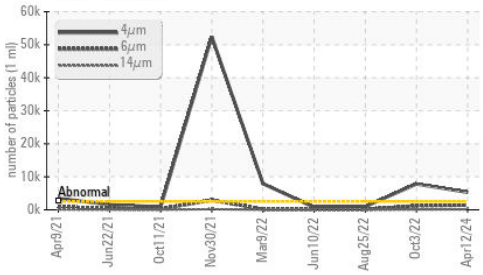
The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919097	WC0744831	WC0716716
Sample Date		Client Info		12 Apr 2024	03 Oct 2022	25 Aug 2022
Machine Age	hrs	Client Info		14974	11484	11298
Oil Age	hrs	Client Info		3700	210	2093
Filter Age	hrs	Client Info		3700	210	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>60	13	7	28
Chromium	ppm	ASTM D5185m	>12	<1	<1	2
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>4	4	2	6
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	<1	<1	2
Tin	ppm	ASTM D5185m		<1	0	0
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	>10	13	9	16
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>2500	5314	7820	988
Particles >6µm		ASTM D7647	>640	1377	1185	123
Particles >14µm		ASTM D7647	>80	124	94	10
Particles >21µm		ASTM D7647	>20	27	25	2
Particles >38µm		ASTM D7647	>4	2	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	20/18/14	20/17/14	17/14/10
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		NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	<1	3
Boron	ppm	ASTM D5185m	0	75	65	78
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	39	45	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	452	473	516
Calcium	ppm	ASTM D5185m		1620	1566	1569
Phosphorus	ppm	ASTM D5185m		670	721	783
Zinc	ppm	ASTM D5185m		751	865	915
Sulfur	ppm	ASTM D5185m		2734	2942	3000
Acid Number (AN)	mg KOH/g	ASTM D8045		1.31	1.57	1.77
Visc @ 40°C	cSt	ASTM D445	109	89.2	81.5	79.2

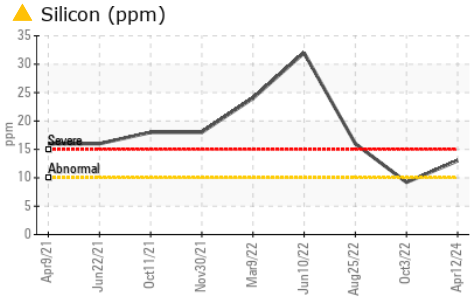
Particle Count



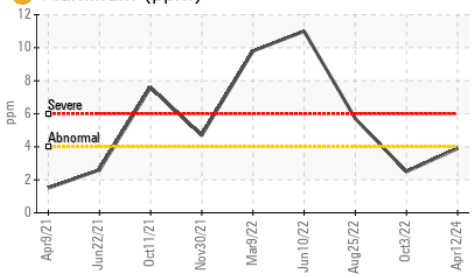
Particle Trend



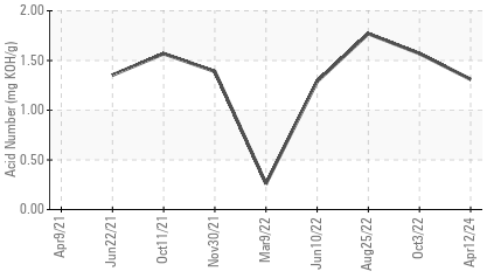
Silicon (ppm)



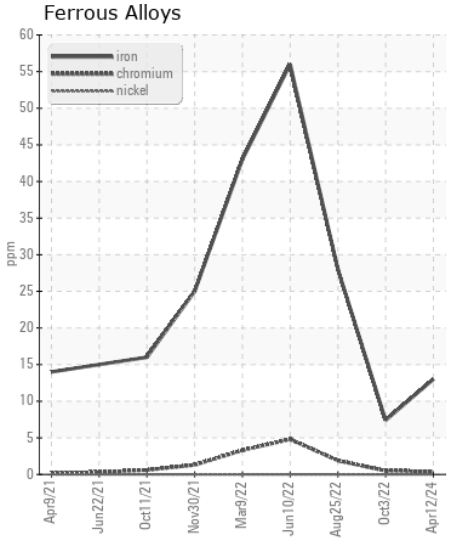
Aluminum (ppm)



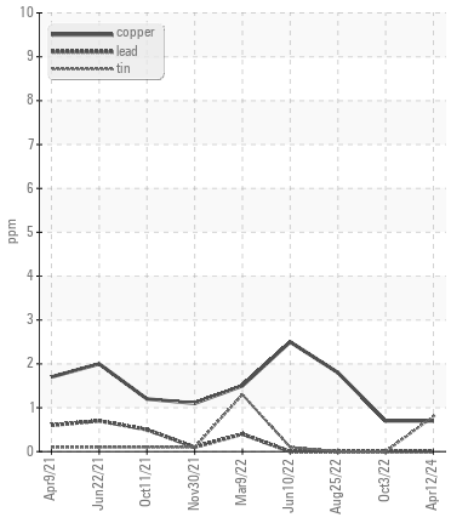
Acid Number



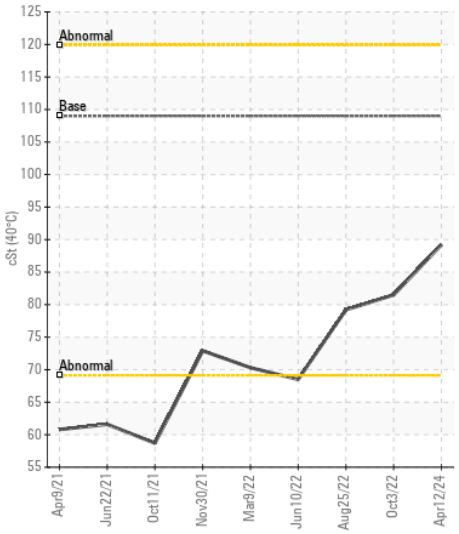
Ferrous Alloys



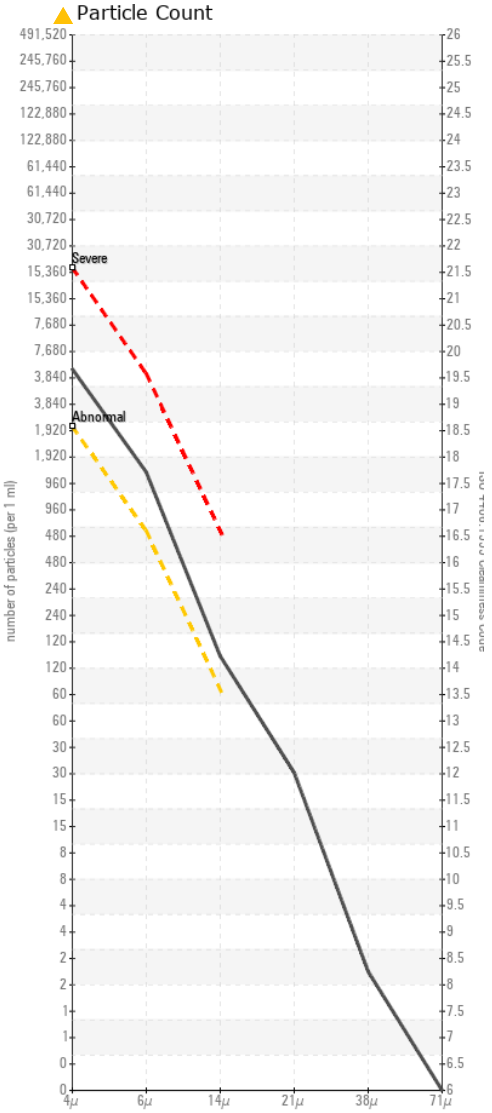
Non-ferrous Metals



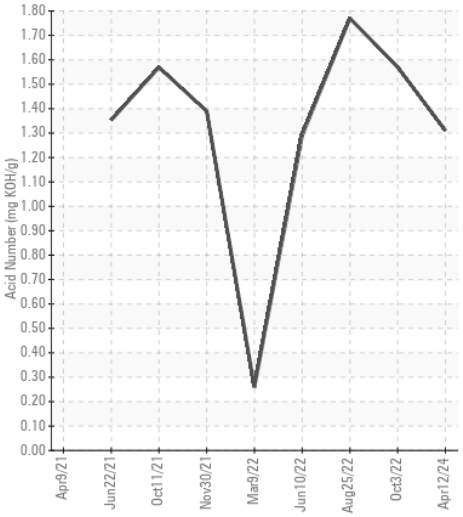
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919097
Lab Number : 06150201
Unique Number : 10980279
Test Package : CONST (Additional Tests: PrtCount)

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Don Baldridge

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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