



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet

Machine Id
1525 1525

Component
Transmission (Manual)

Fluid
MOBIL DELVAC SYN TRANS FLUID 50 (3 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937844	WC0808388	WC0630670
Sample Date		Client Info		08 Jul 2024	26 Jun 2023	05 Oct 2021
Machine Age	hrs	Client Info		19794	18384	16151
Oil Age	hrs	Client Info		3182	1772	1869
Filter Age	hrs	Client Info		0	1772	1869
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	▲ 484	▲ 448	96
Chromium	ppm	ASTM D5185m	>5	4	3	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	● 31	● 30	23
Lead	ppm	ASTM D5185m	>45	2	<1	<1
Copper	ppm	ASTM D5185m	>225	17	15	4
Tin	ppm	ASTM D5185m	>10	2	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

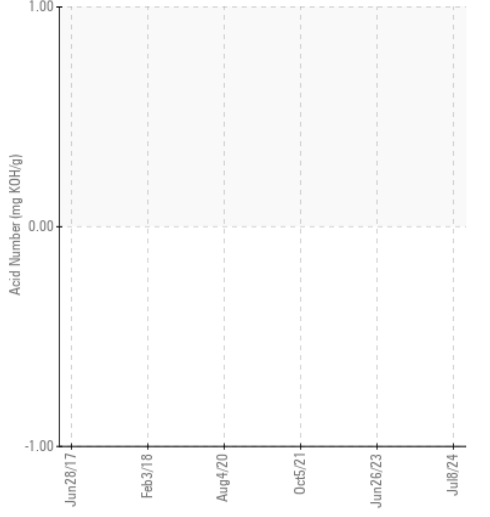
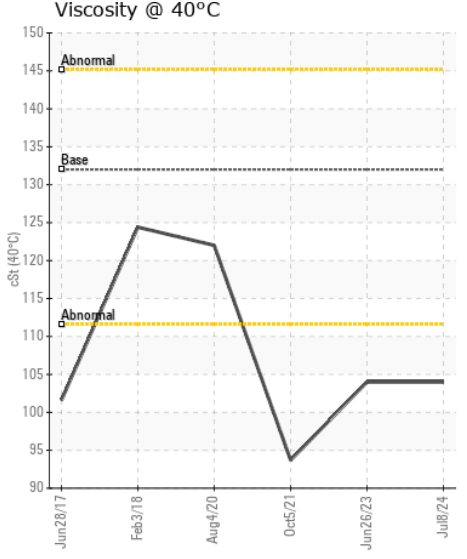
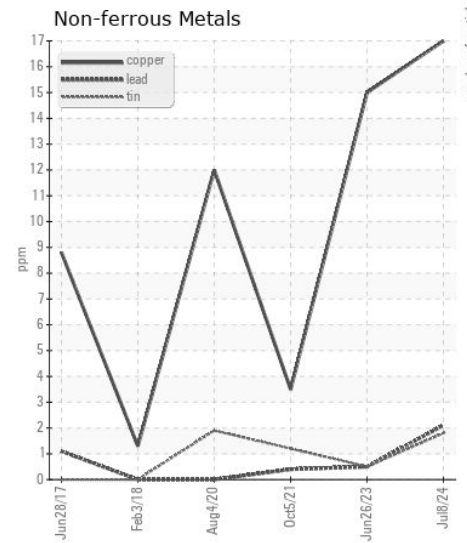
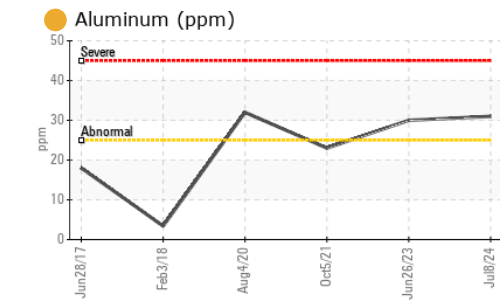
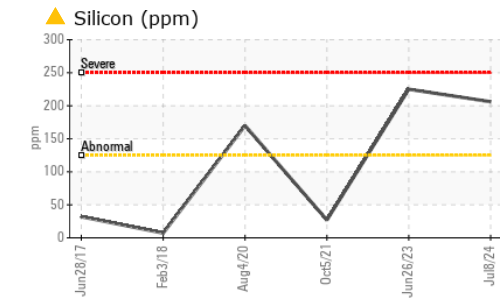
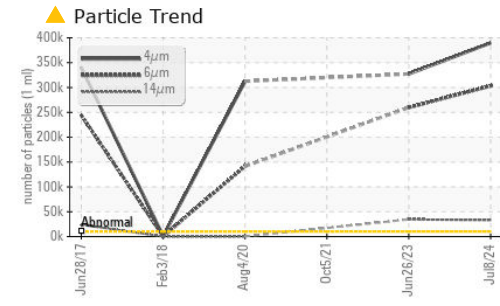
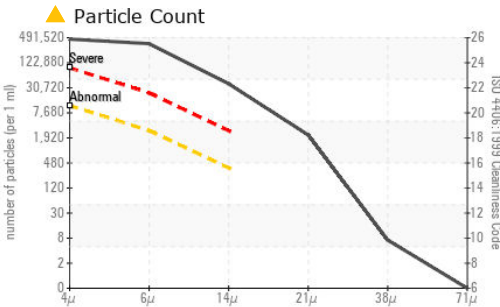
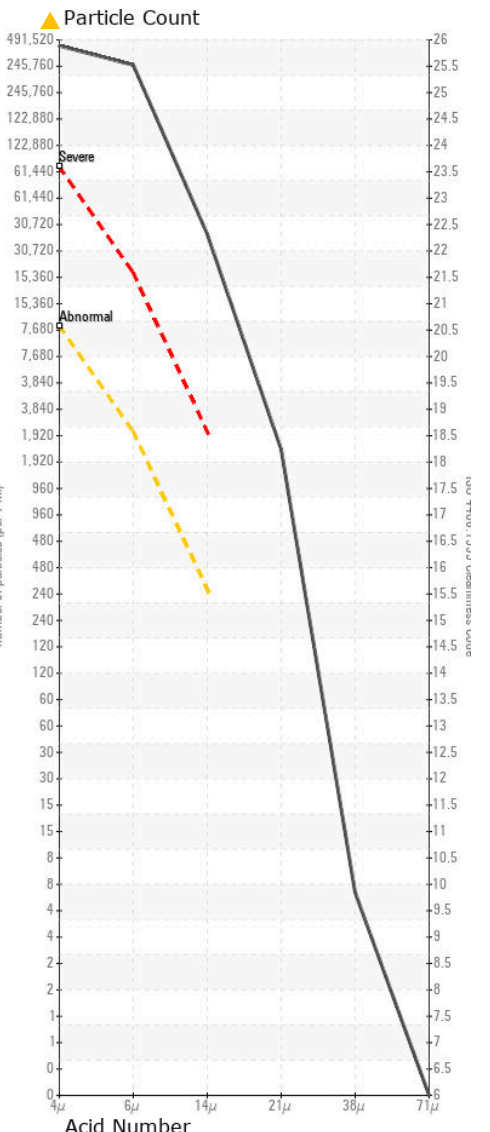
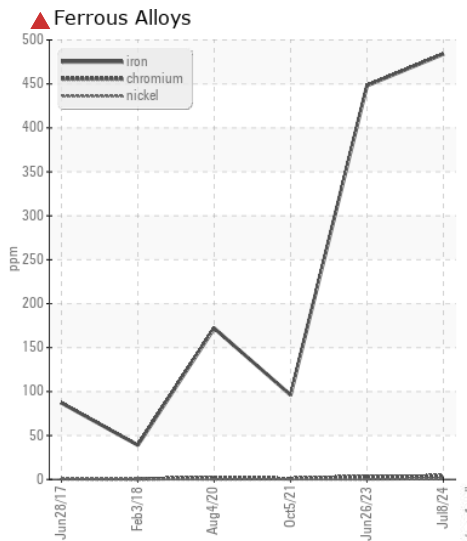
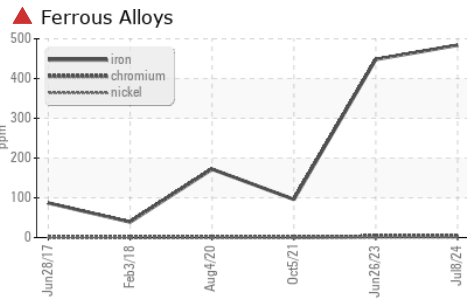
There is a high amount of particulates present in the fluid. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>125	▲ 206	▲ 225	27
Potassium	ppm	ASTM D5185m	>20	22	19	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	▲ 389784	▲ 327266	---
Particles >6µm		ASTM D7647	>2500	▲ 303208	▲ 259751	---
Particles >14µm		ASTM D7647	>320	▲ 33181	▲ 34361	---
Particles >21µm		ASTM D7647	>80	▲ 1979	▲ 2349	---
Particles >38µm		ASTM D7647	>20	6	▲ 20	---
Particles >71µm		ASTM D7647	>4	0	1	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 26/25/22	▲ 26/25/22	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	>0.1	NEG	0.2%	NEG

FLUID CONDITION

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		16	15	3
Boron	ppm	ASTM D5185m		223	250	284
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		9	8	2
Magnesium	ppm	ASTM D5185m		13	11	2
Calcium	ppm	ASTM D5185m		143	142	67
Phosphorus	ppm	ASTM D5185m		1094	1023	1111
Zinc	ppm	ASTM D5185m		37	40	4
Sulfur	ppm	ASTM D5185m		1044	700	583
Visc @ 40°C	cSt	ASTM D445	132	104	104	93.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937844 **Received** : 10 Jul 2024
Lab Number : 06232168 **Tested** : 11 Jul 2024
Unique Number : 11115661 **Diagnosed** : 11 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PrtCount)

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

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)