



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
8018 8018
Component
Front Differential
Fluid
MOBIL 75W90 (5 GAL)

RECOMMENDATION

The oil 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

Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

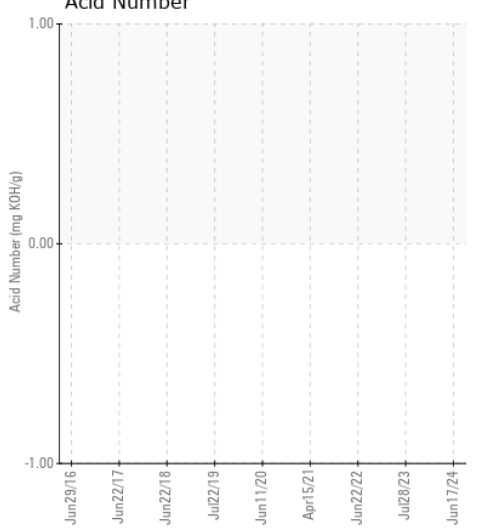
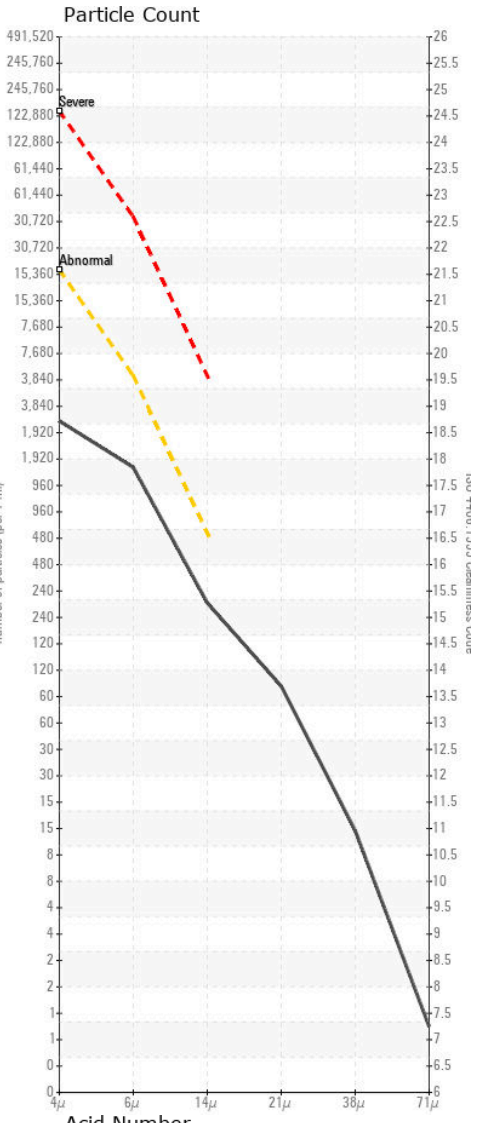
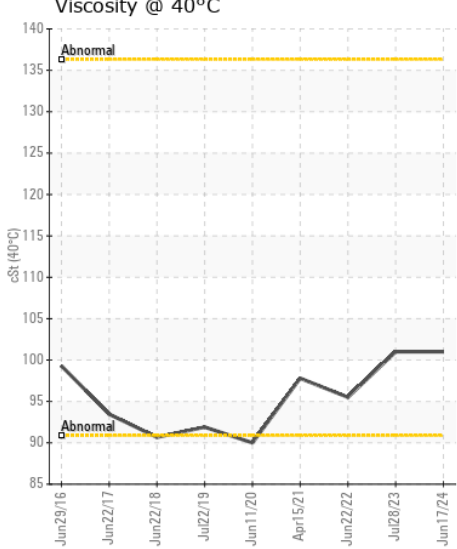
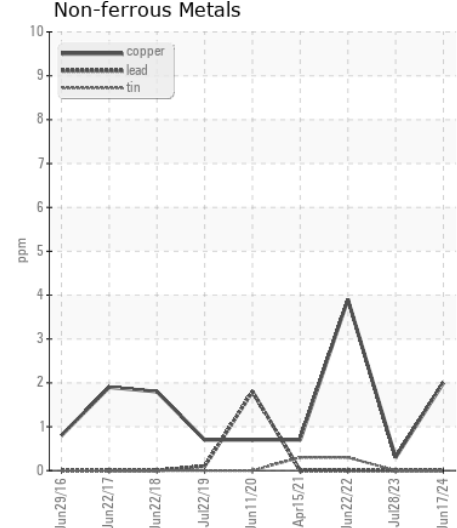
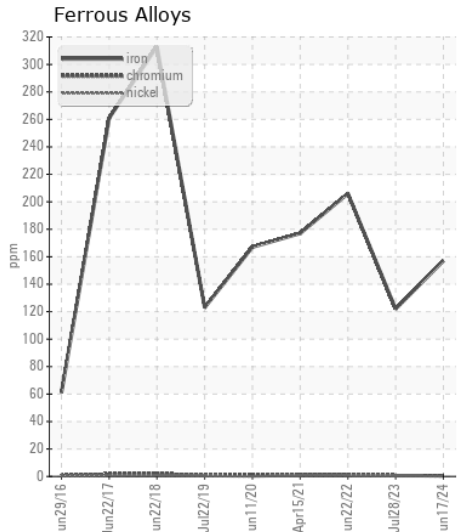
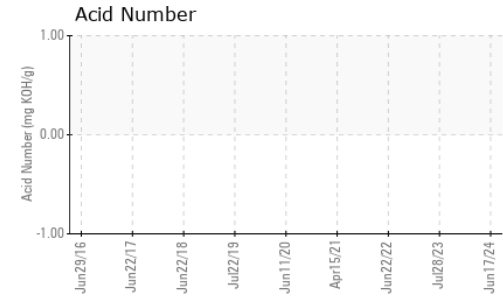
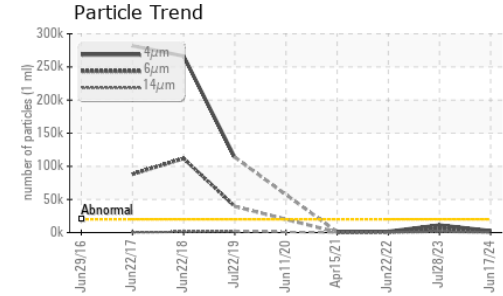
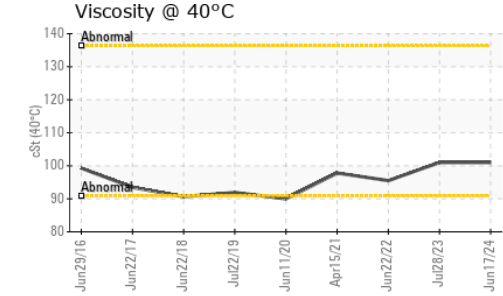
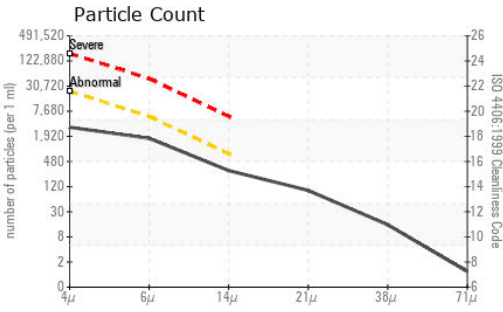
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937939	WC0834946	WC0710691
Sample Date		Client Info		17 Jun 2024	28 Jul 2023	22 Jun 2022
Machine Age	hrs	Client Info		16956	15209	12969
Oil Age	hrs	Client Info		3976	2229	11
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL

Iron	ppm	ASTM D5185m	>500	157	122	206
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	<1	4
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	>75	16	9	17
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	2767	11414	1744
Particles >6µm		ASTM D7647	>5000	1507	6218	950
Particles >14µm		ASTM D7647	>640	256	1058	162
Particles >21µm		ASTM D7647	>160	86	356	54
Particles >38µm		ASTM D7647	>40	13	55	8
Particles >71µm		ASTM D7647	>10	1	6	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	21/20/17	18/17/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	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	>.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		0	0	1
Boron	ppm	ASTM D5185m		161	177	306
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		2	3	2
Manganese	ppm	ASTM D5185m		2	2	4
Magnesium	ppm	ASTM D5185m		20	20	13
Calcium	ppm	ASTM D5185m		54	63	73
Phosphorus	ppm	ASTM D5185m		1002	1016	1249
Zinc	ppm	ASTM D5185m		40	41	47
Sulfur	ppm	ASTM D5185m		18377	20663	20647
Visc @ 40°C	cSt	ASTM D445		101	101	95.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937939 **Received** : 19 Jun 2024
Lab Number : 06214520 **Tested** : 21 Jun 2024
Unique Number : 11087384 **Diagnosed** : 21 Jun 2024 - Don Baldrige
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

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)