



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

8035 8035

Component

Front Differential

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0939237	WC0740850	WC0485134
Sample Date		Client Info		23 May 2024	13 Sep 2022	10 Jul 2020
Machine Age	hrs	Client Info		5978	3119	2
Oil Age	hrs	Client Info		5976	3117	2
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	▲ 773	▲ 831	▲ 672
Chromium	ppm	ASTM D5185m	>10	4	4	4
Nickel	ppm	ASTM D5185m	>10	3	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	6	3
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	11	12	4
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

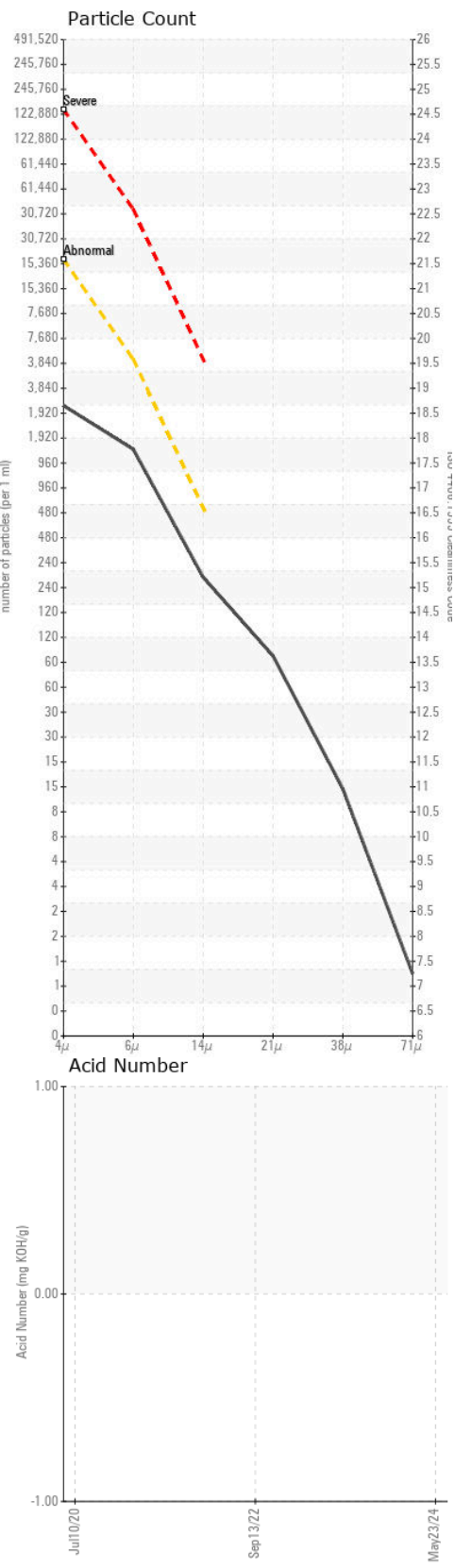
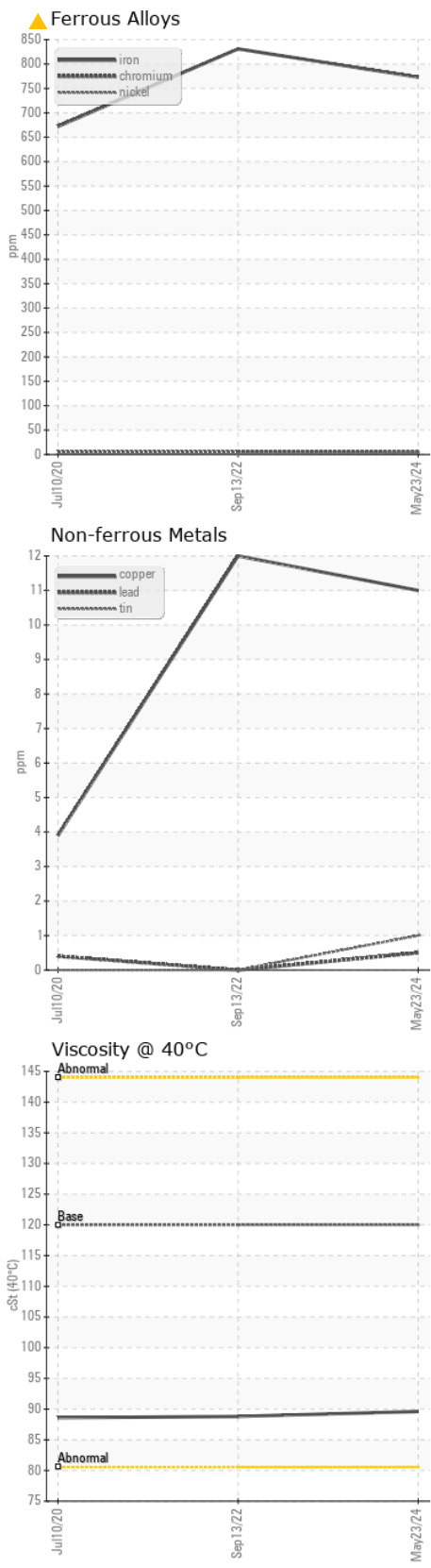
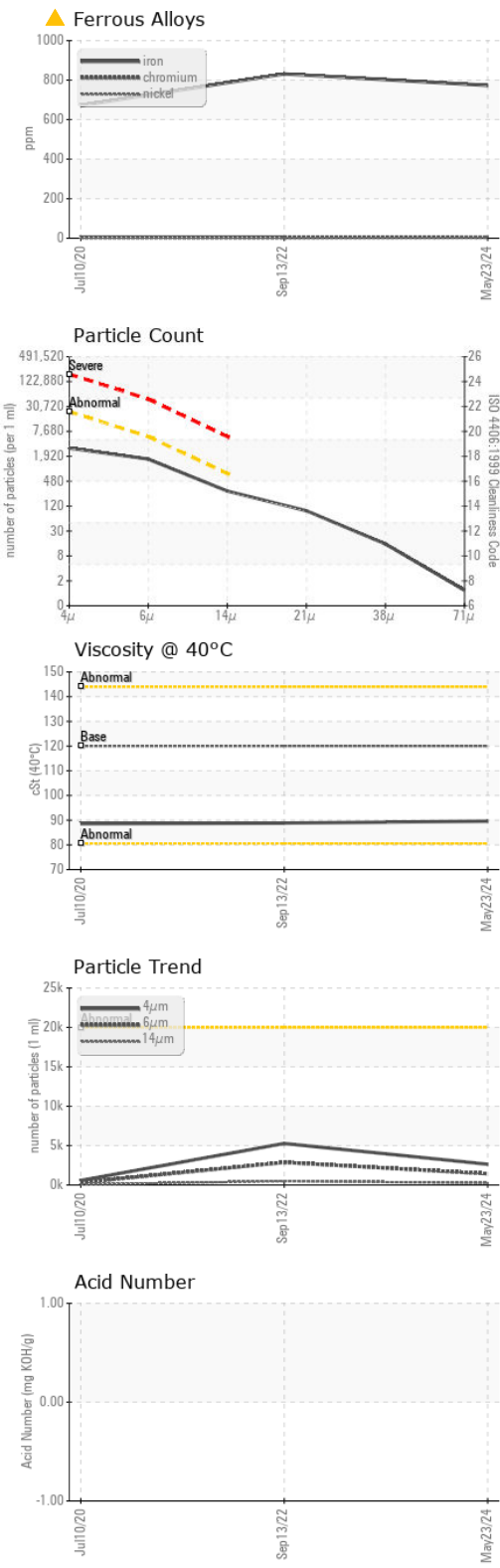
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	33	38	47
Potassium	ppm	ASTM D5185m	>20	17	17	14
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	2636	5272	578
Particles >6µm		ASTM D7647	>5000	1436	2872	315
Particles >14µm		ASTM D7647	>640	244	489	54
Particles >21µm		ASTM D7647	>160	82	165	18
Particles >38µm		ASTM D7647	>40	13	25	3
Particles >71µm		ASTM D7647	>10	1	3	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	20/19/16	16/15/13
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		18	16	18
Boron	ppm	ASTM D5185m		174	224	170
Barium	ppm	ASTM D5185m		2	0	2
Molybdenum	ppm	ASTM D5185m		<1	2	0
Manganese	ppm	ASTM D5185m		16	17	16
Magnesium	ppm	ASTM D5185m		6	4	1
Calcium	ppm	ASTM D5185m		41	41	40
Phosphorus	ppm	ASTM D5185m		1296	1316	1247
Zinc	ppm	ASTM D5185m		82	90	84
Sulfur	ppm	ASTM D5185m		24806	22268	12044
Visc @ 40°C	cSt	ASTM D445	120	89.6	88.8	88.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939237 **Received** : 28 May 2024
Lab Number : 06192736 **Tested** : 31 May 2024
Unique Number : 11049488 **Diagnosed** : 31 May 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount)
 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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