



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5221 5221
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 10 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956019	WC0937779	WC0861771
Sample Date		Client Info		16 Jul 2024	01 May 2024	22 Jan 2024
Machine Age	hrs	Client Info		10064	9523	8902
Oil Age	hrs	Client Info		491	2347	1726
Filter Age	hrs	Client Info		491	2347	1726
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	17	20	20
Chromium	ppm	ASTM D5185m	>11	2	2	2
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>11	4	3	3
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>21	3	2	3
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

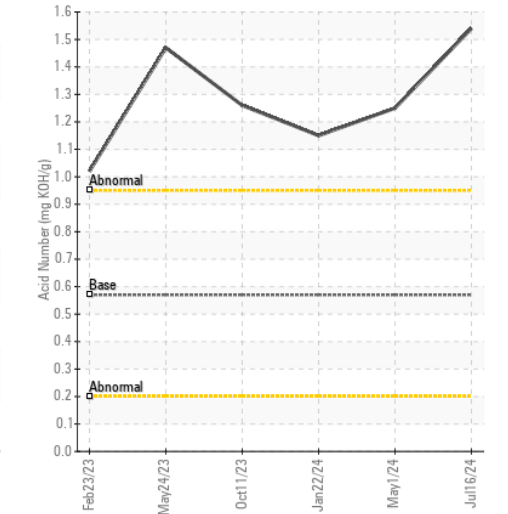
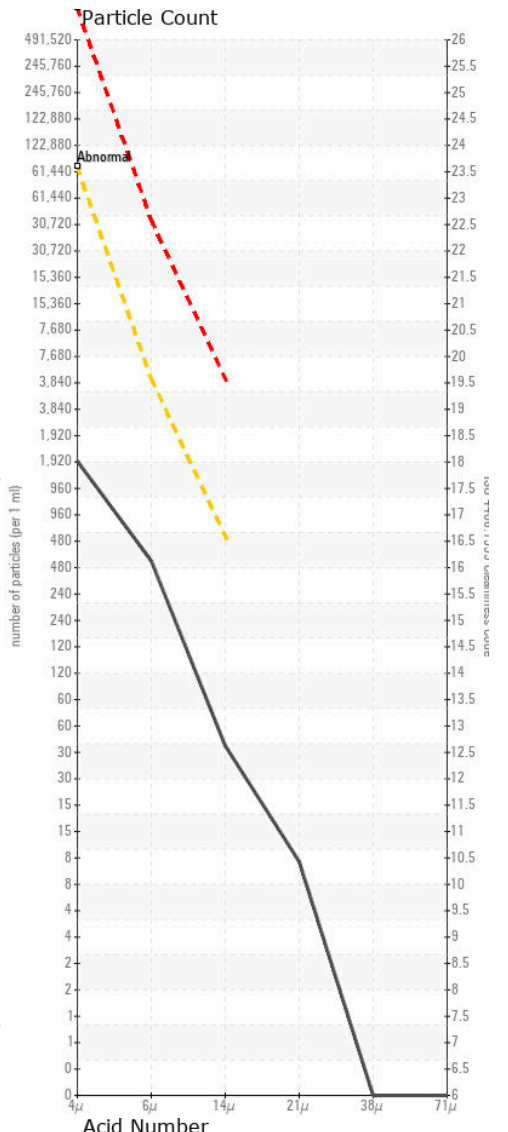
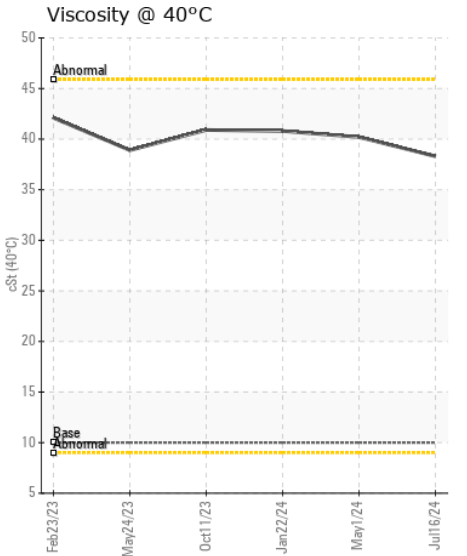
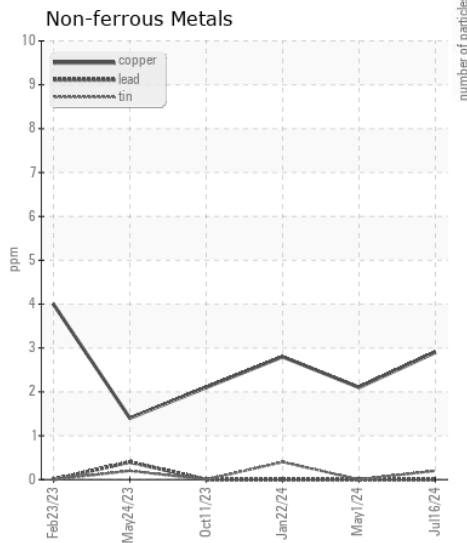
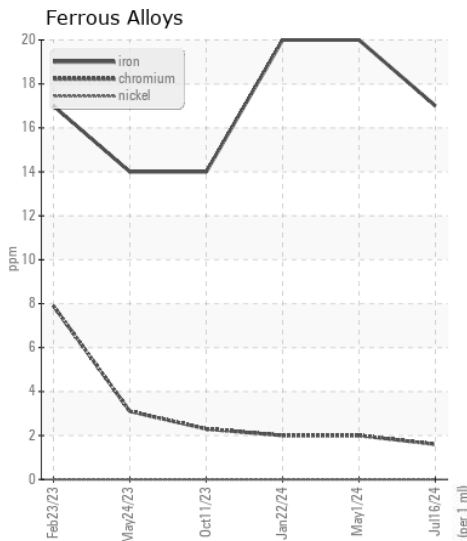
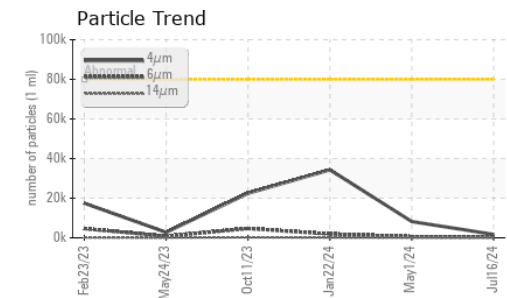
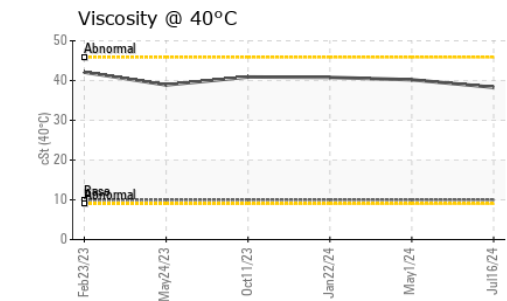
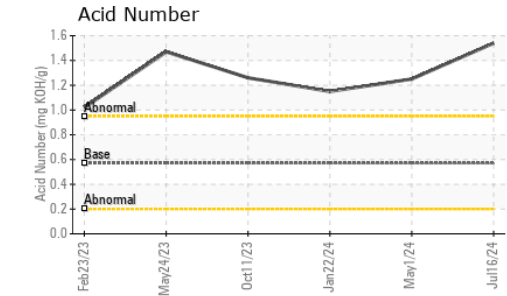
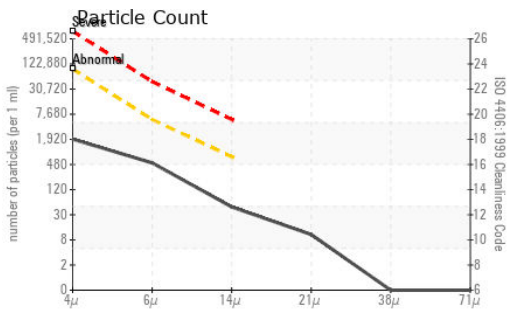
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	6	7	10
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	1701	8225	34340
Particles >6µm		ASTM D7647	>5000	461	560	1928
Particles >14µm		ASTM D7647	>640	41	31	101
Particles >21µm		ASTM D7647	>160	9	6	23
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/16/13	20/16/12	22/18/14
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	5	5
Boron	ppm	ASTM D5185m	5	8	2	5
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	5	4	4
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	638	578	610
Calcium	ppm	ASTM D5185m	200	103	117	117
Phosphorus	ppm	ASTM D5185m	300	988	981	1038
Zinc	ppm	ASTM D5185m	370	1209	1116	1202
Sulfur	ppm	ASTM D5185m	2500	6116	6622	5752
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.54	1.25	1.15
Visc @ 40°C	cSt	ASTM D445	10	38.3	40.2	40.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956019 **Received** : 18 Jul 2024
Lab Number : 06240181 **Tested** : 19 Jul 2024
Unique Number : 11129015 **Diagnosed** : 19 Jul 2024 - Don Baldridge
Test Package : CONST

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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)