



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5000 5000
Component
Hydraulic System
Fluid
MOBIL HYDRAULIC 10W (60 GAL)

RECOMMENDATION

Oil and filter 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		WC0918677	WC0885963	WC0862124
Sample Date		Client Info		18 Apr 2024	24 Jan 2024	25 Sep 2023
Machine Age	hrs	Client Info		22497	21922	21338
Oil Age	hrs	Client Info		1159	584	1403
Filter Age	hrs	Client Info		1159	584	1403
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	11	11	8
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	4	1	2
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	2	2
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	10	6	12
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

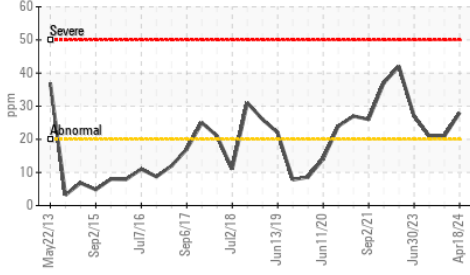
Silicon	ppm	ASTM D5185m	>20	▲ 28	▲ 21	▲ 21
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		13516	148426	8694
Particles >6µm		ASTM D7647	>1300	1069	▲ 65871	914
Particles >14µm		ASTM D7647	>160	72	▲ 3943	14
Particles >21µm		ASTM D7647	>40	19	▲ 1151	3
Particles >38µm		ASTM D7647	>10	1	▲ 163	0
Particles >71µm		ASTM D7647	>3	0	▲ 31	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	21/17/13	▲ 24/23/19	20/17/11
Silt	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

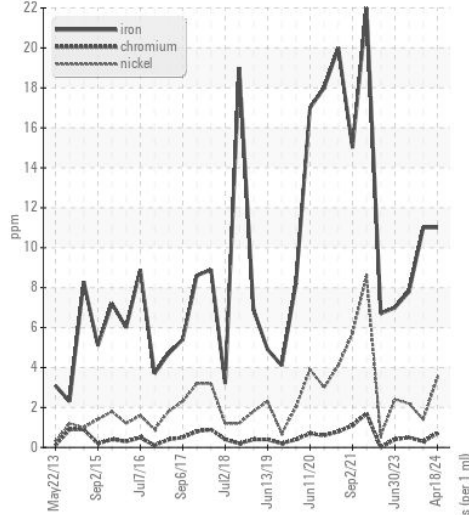
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	0	4
Boron	ppm	ASTM D5185m		<1	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		623	616	561
Calcium	ppm	ASTM D5185m		283	279	764
Phosphorus	ppm	ASTM D5185m		1112	1063	1008
Zinc	ppm	ASTM D5185m		1218	1183	1155
Sulfur	ppm	ASTM D5185m		7171	6906	6664
Acid Number (AN)	mg KOH/g	ASTM D8045		1.53	1.68	1.39
Visc @ 40°C	cSt	ASTM D445	37.7	38.0	37.8	38.3

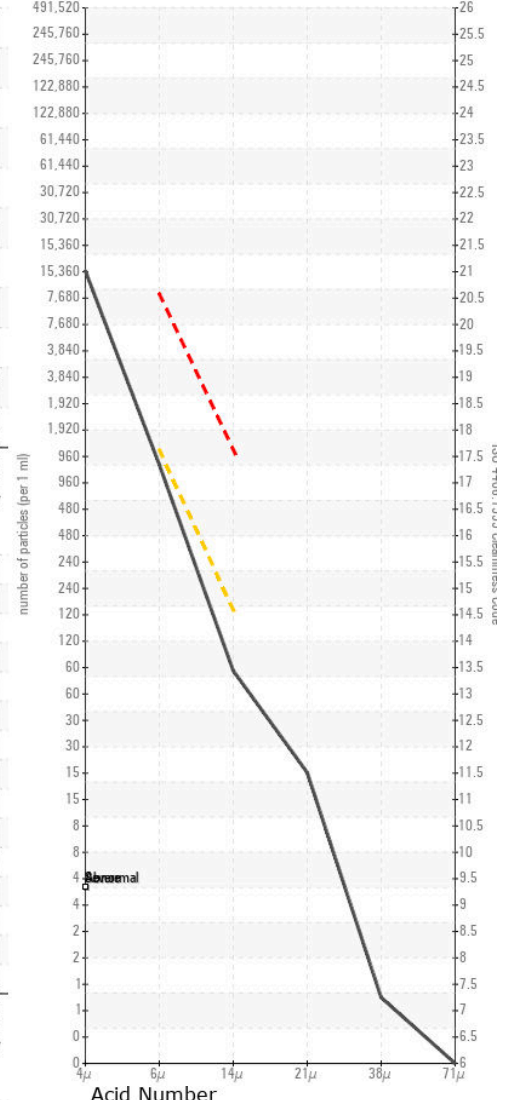
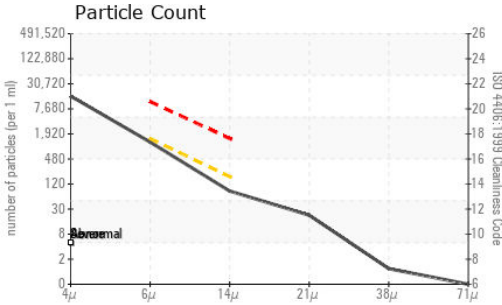
▲ Silicon (ppm)



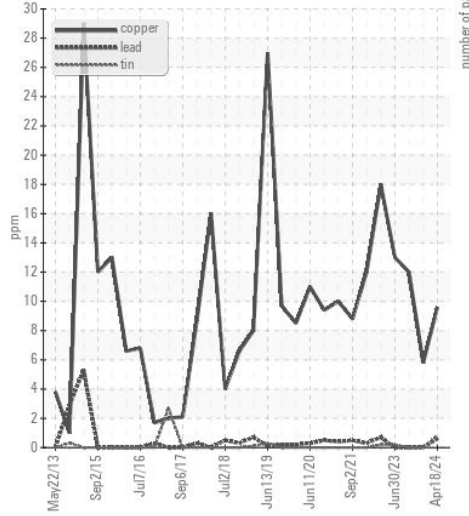
Ferrous Alloys



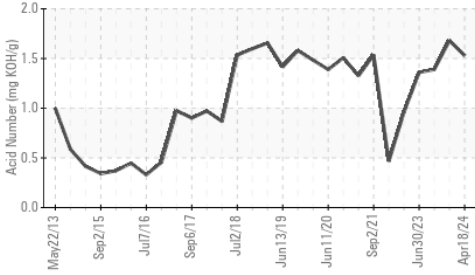
Particle Count



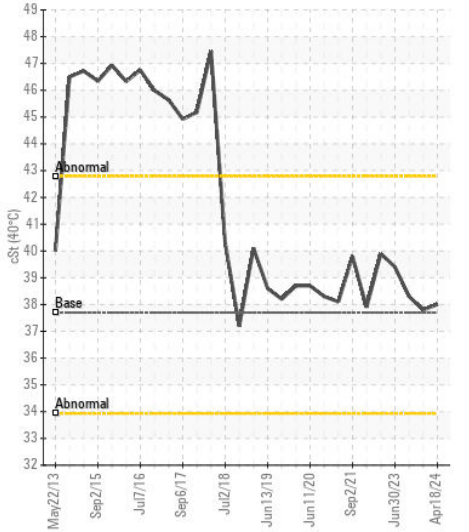
Non-ferrous Metals



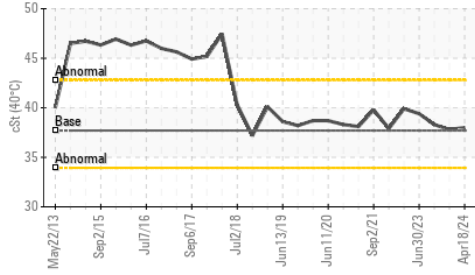
Acid Number



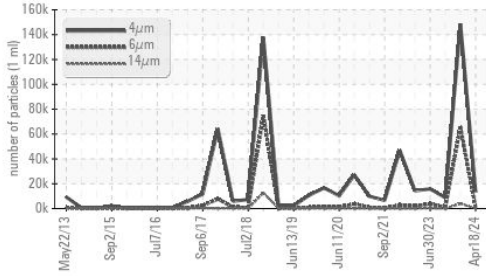
Viscosity @ 40°C



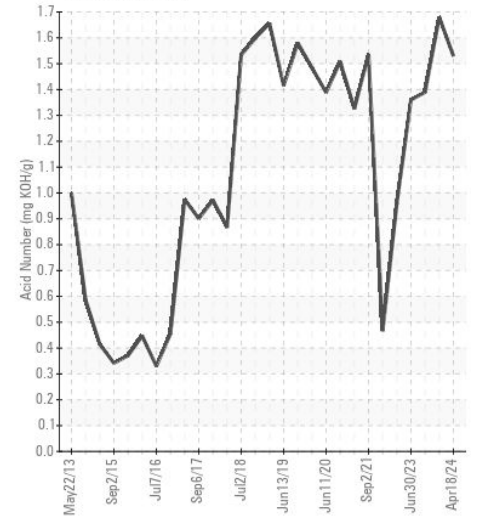
Viscosity @ 40°C



Particle Trend



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918677
Lab Number : 06156844
Unique Number : 10992267
Test Package : CONST
Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Angela Borella

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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)