



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
BEAVER DAM BRIDGE
 Component
Hydraulic System
 Fluid
MOBIL DTE 24 (400 GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		PH0003942	PH0000262	---
Sample Date		Client Info		11 Jun 2024	23 May 2023	---
Machine Age	hrs	Client Info		1200	0	---
Oil Age	hrs	Client Info		1200	1000	---
Filter Age	hrs	Client Info		1200	1	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	2	1	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>20	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>20	2	<1	---
Lead	ppm	ASTM D5185m	>20	1	0	---
Copper	ppm	ASTM D5185m	>20	▲ 48	▲ 38	---
Tin	ppm	ASTM D5185m	>20	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	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.

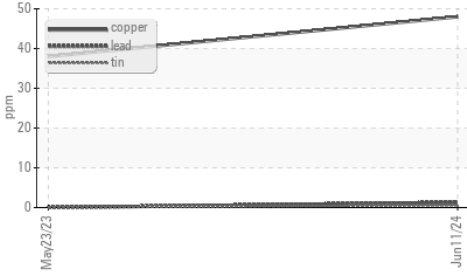
Silicon	ppm	ASTM D5185m	>15	2	<1	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>0.05	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	257	685	---
Particles >6µm		ASTM D7647	>1300	56	205	---
Particles >14µm		ASTM D7647	>320	3	8	---
Particles >21µm		ASTM D7647	>80	1	2	---
Particles >38µm		ASTM D7647	>20	0	0	---
Particles >71µm		ASTM D7647	>4	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/15	15/13/9	17/15/10	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	---

FLUID CONDITION

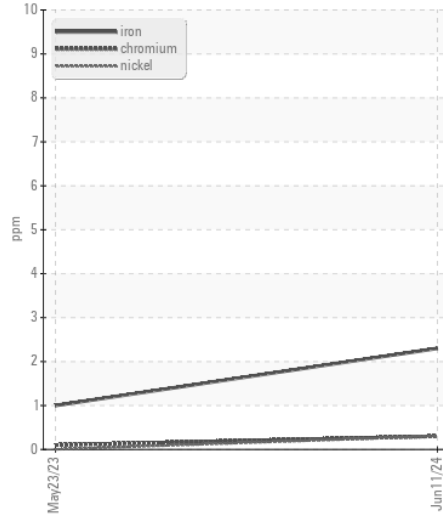
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		1	0	---
Calcium	ppm	ASTM D5185m		148	139	---
Phosphorus	ppm	ASTM D5185m		529	469	---
Zinc	ppm	ASTM D5185m		846	718	---
Sulfur	ppm	ASTM D5185m		4908	4783	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.15	1.06	---
Visc @ 40°C	cSt	ASTM D445	31.5	33.2	33.3	---

▲ Non-ferrous Metals



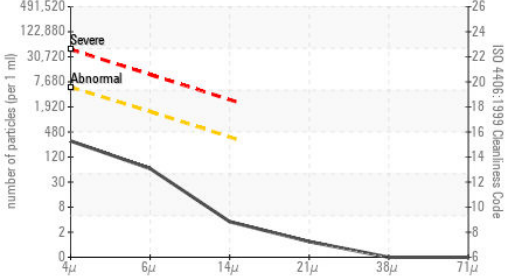
Ferrous Alloys



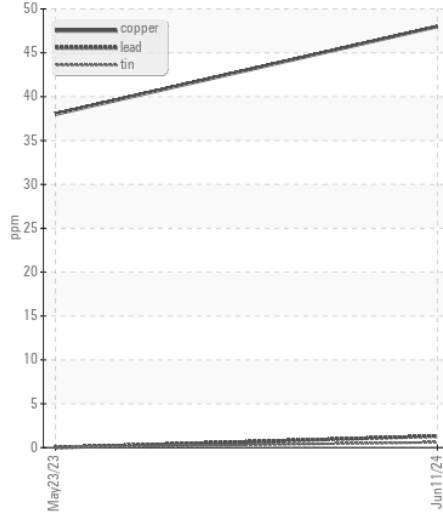
Particle Filter (Magn; 200 x)



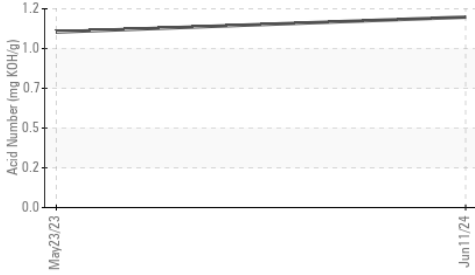
Particle Count



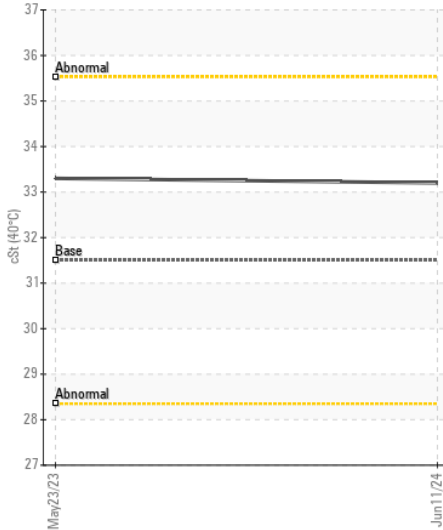
▲ Non-ferrous Metals



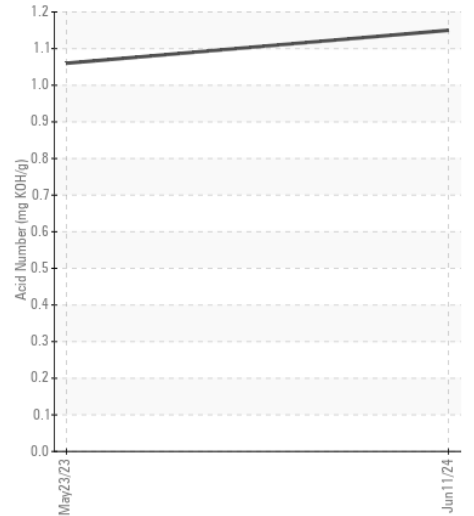
Acid Number



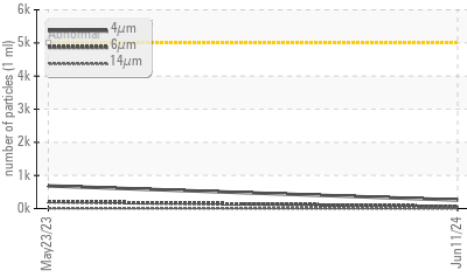
Viscosity @ 40°C



Acid Number



Particle Trend



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PH0003942
 Lab Number : 06213434
 Unique Number : 11086298
 Test Package : PLANT (Additional Tests: PrtFilter)

ATLANTIC HYDRAULIC SYSTEMS
 90 PRECISION DR
 SHIRLEY, NY
 US 11967
 Contact: JOHN HERNANDEZ

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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F: