



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
City Of Mount Pearl
Machine Id
WACHS Valve Exerciser Trailer
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (68 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Oil after using OFS bypass filtration.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0001153	OF0000566	OF0000565
Sample Date		Client Info		06 Jun 2024	01 Jun 2024	30 May 2024
Machine Age	hrs	Client Info		2071	2069	2067
Oil Age	hrs	Client Info		2	0	468
Filter Age	hrs	Client Info		2	0	468
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<1	<1	5
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	0
Lead	ppm	ASTM D5185(m)	>10	0	0	<1
Copper	ppm	ASTM D5185(m)	>75	8	5	36
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

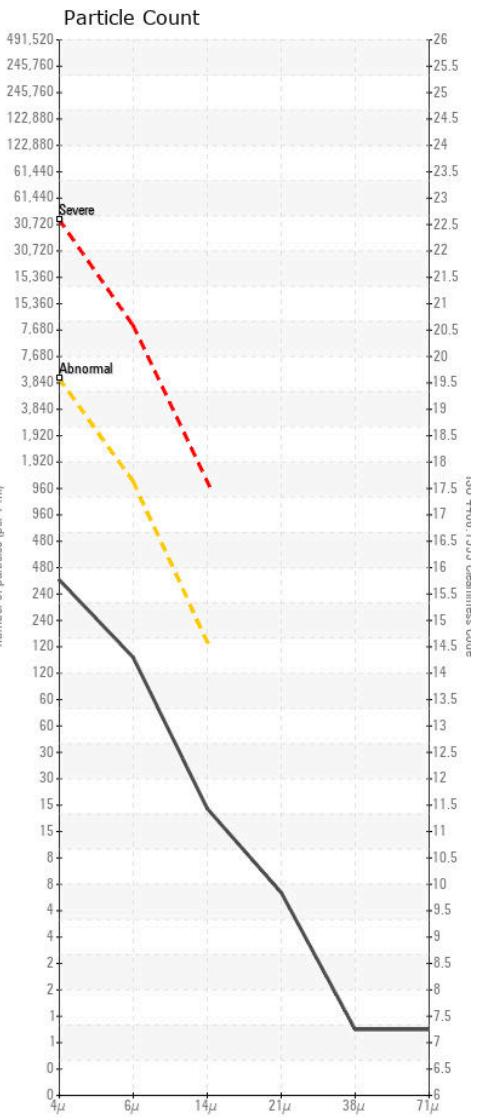
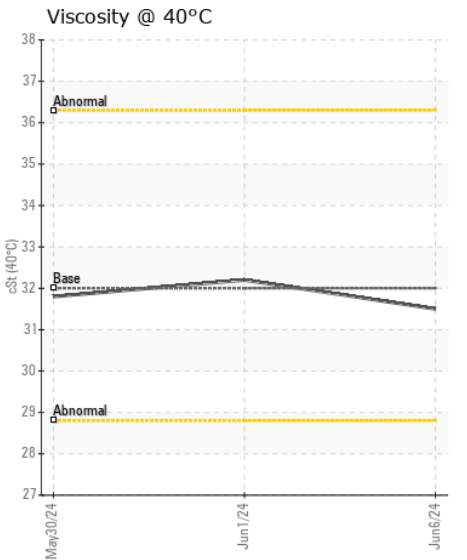
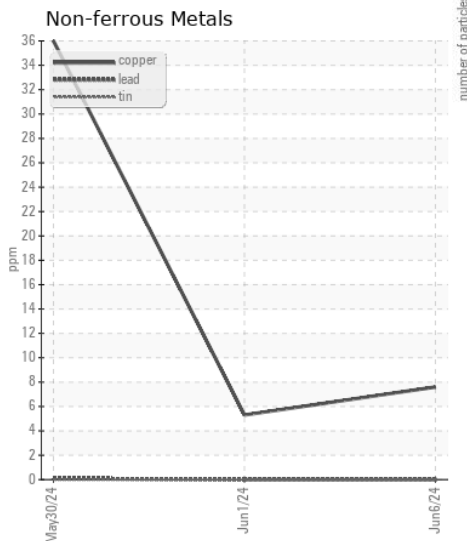
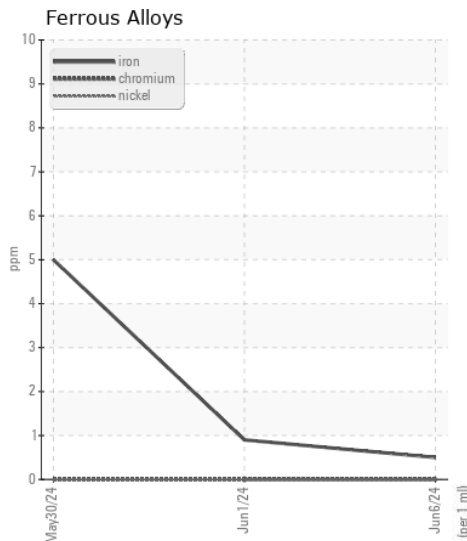
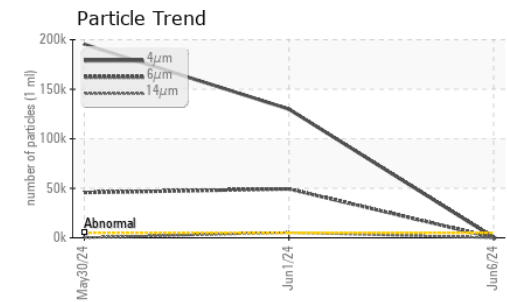
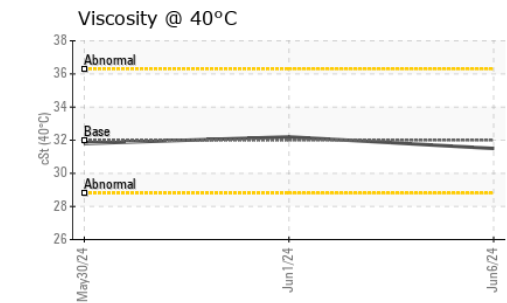
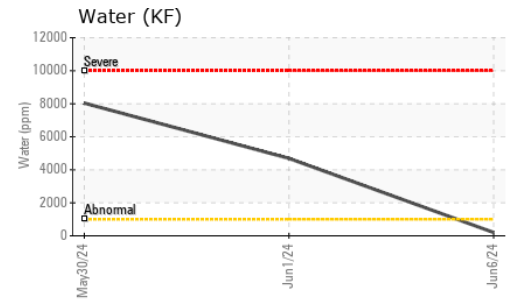
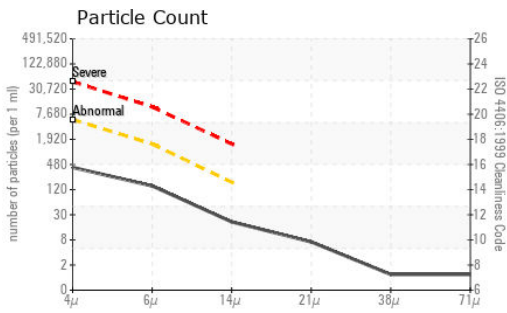
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<1	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water	%	ASTM D6304*	>0.1	0.020	▲ 0.468	▲ 0.803
ppm Water	ppm	ASTM D6304*	>1000	202	▲ 4689	▲ 8039
Particles >4µm		ASTM D7647	>5000	359	▲ 129882	▲ 195328
Particles >6µm		ASTM D7647	>1300	130	▲ 49334	▲ 45681
Particles >14µm		ASTM D7647	>160	18	▲ 5355	117
Particles >21µm		ASTM D7647	>40	6	▲ 1271	16
Particles >38µm		ASTM D7647	>10	1	▲ 41	1
Particles >71µm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	▲ 24/23/20	▲ 25/23/14
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	▲ HAZY	▲ LAYRD
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	▲ 1%	▲ .5%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	2	2
Boron	ppm	ASTM D5185(m)	5	13	20	5
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	5	5	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	25	138	168	2
Calcium	ppm	ASTM D5185(m)	200	399	374	19
Phosphorus	ppm	ASTM D5185(m)	300	556	525	319
Zinc	ppm	ASTM D5185(m)	370	610	593	366
Sulfur	ppm	ASTM D5185(m)	2500	2126	2059	1434
Visc @ 40°C	cSt	ASTM D7279(m)	32	31.5	32.2	31.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0001153
Lab Number : 02641763
Unique Number : 5799302
Test Package : MOB 2 (Additional Tests: KF)

Received : 13 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

Oil Filtration Solutions Ltd.
 PO BOX 16125
 CONCEPTION BAY SOUTH, NL
 CA A1X 2E2
 Contact: BILL BUTLER
 BBUTLER@OILFILTRATIONSOLUTIONS.COM
 T: (709)834-8433
 F: (709)834-8435