



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**TRAVELIFT (S/N 3331-0907)**  
Component  
**Hydraulic System**  
Fluid  
**CHEVRON 1000 THF (110 GAL)**

**RECOMMENDATION**

We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0059793</b>	MW0059736	MW0021214
Sample Date		Client Info		<b>15 Apr 2024</b>	20 Jul 2023	13 Apr 2021
Machine Age	yrs	Client Info		<b>1</b>	1	1
Oil Age	yrs	Client Info		<b>1</b>	1	1
Filter Age	yrs	Client Info		<b>1</b>	1	1
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>20	<b>4</b>	5	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

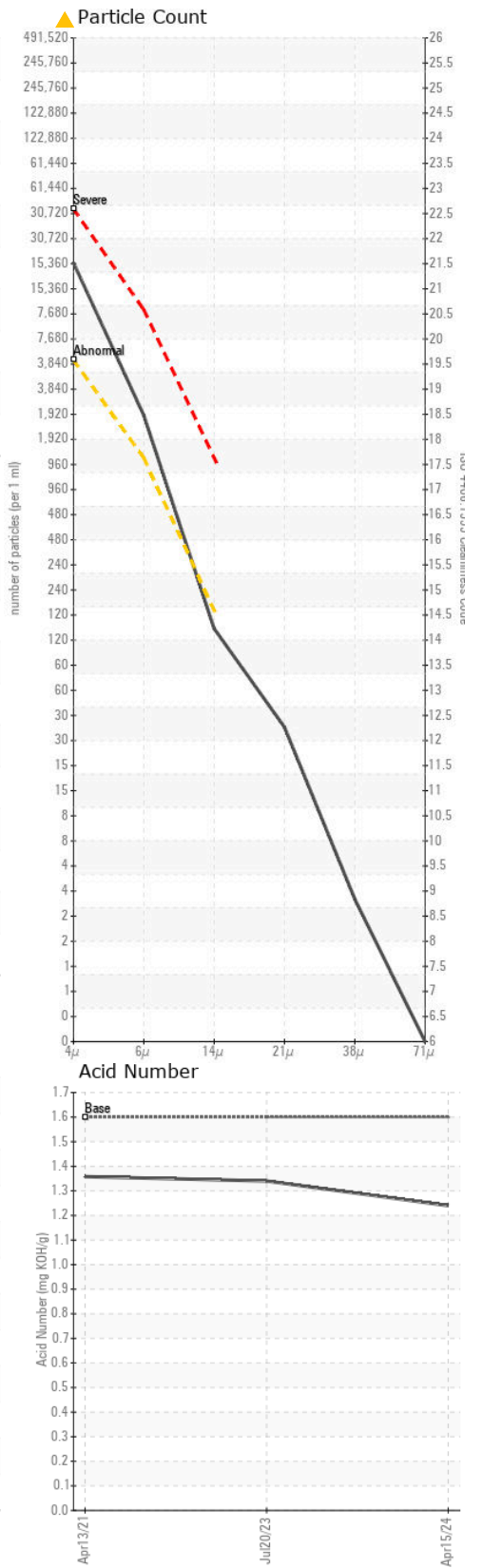
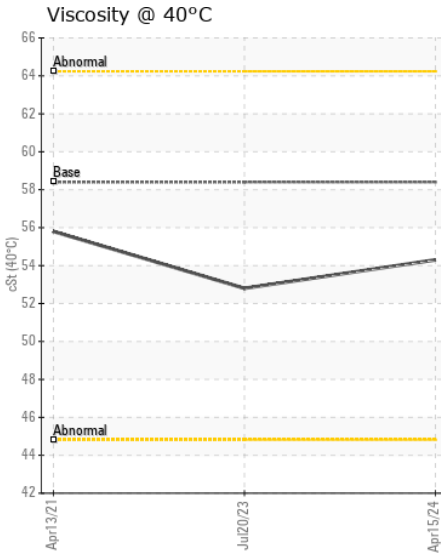
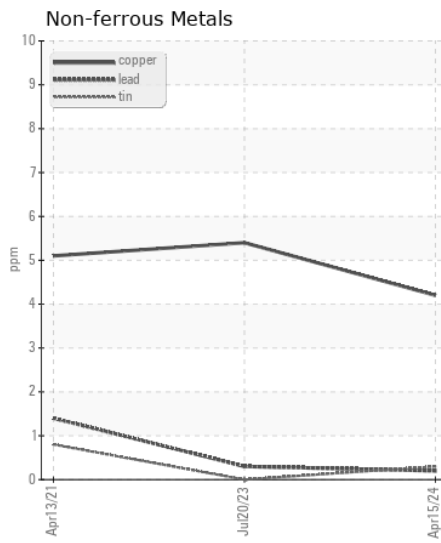
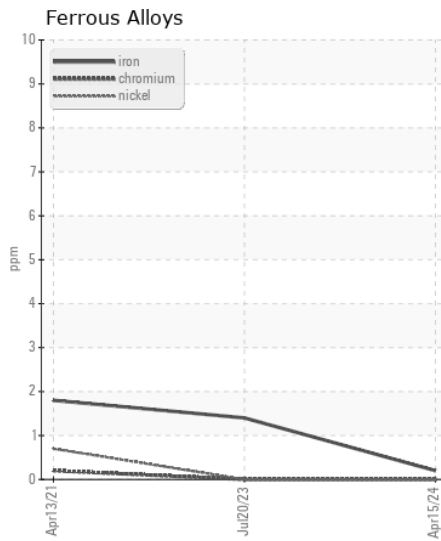
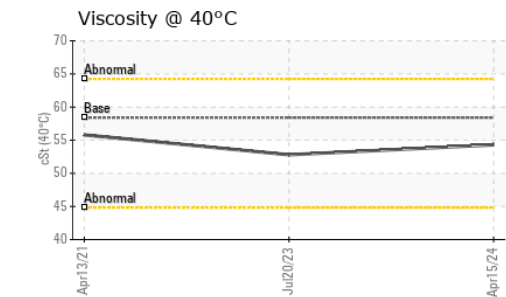
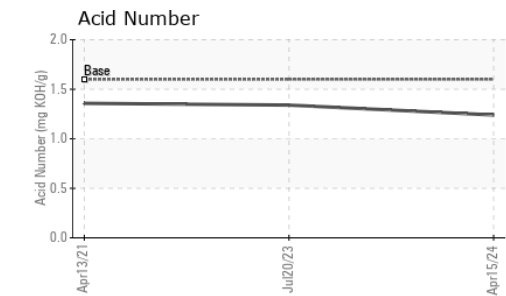
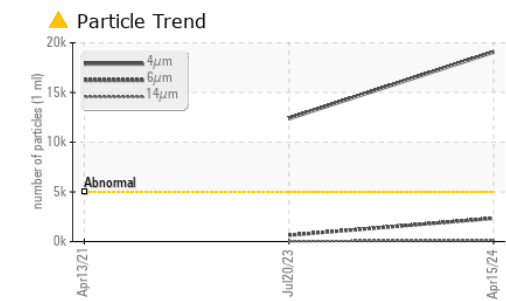
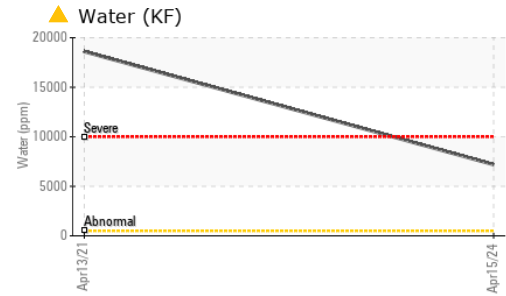
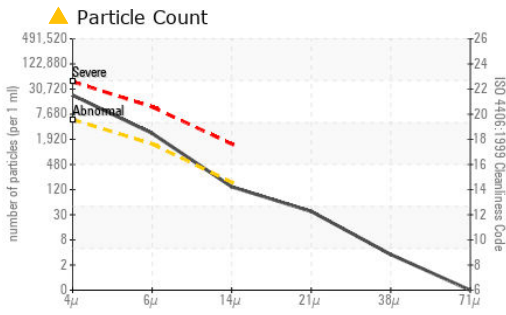
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>9</b>	6	▲ 42
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Water	%	ASTM D6304	>0.05	<b>▲ 0.719</b>	---	▲ 1.86
ppm Water	ppm	ASTM D6304	>500	<b>▲ 7190</b>	---	▲ 18600
Particles >4µm		ASTM D7647	>5000	<b>▲ 19073</b>	▲ 12373	---
Particles >6µm		ASTM D7647	>1300	<b>● 2335</b>	635	---
Particles >14µm		ASTM D7647	>160	<b>124</b>	31	---
Particles >21µm		ASTM D7647	>40	<b>32</b>	6	---
Particles >38µm		ASTM D7647	>10	<b>3</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/18/14</b>	▲ 21/16/12	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	● MILKY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>▲ 0.2%</b>	NEG	▲ 0.2%

**FLUID CONDITION**

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>3</b>	0	0
Boron	ppm	ASTM D5185m	10	<b>22</b>	7	18
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>6</b>	3	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	20	<b>40</b>	16	17
Calcium	ppm	ASTM D5185m	3200	<b>2747</b>	2717	2431
Phosphorus	ppm	ASTM D5185m	1100	<b>1030</b>	996	928
Zinc	ppm	ASTM D5185m	1400	<b>1214</b>	1199	1180
Sulfur	ppm	ASTM D5185m	3600	<b>4203</b>	4086	3863
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	<b>1.24</b>	1.34	1.358
Visc @ 40°C	cSt	ASTM D445	58.4	<b>54.3</b>	52.8	55.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0059793 **Received** : 18 Apr 2024  
**Lab Number** : 06153017 **Tested** : 22 Apr 2024  
**Unique Number** : 10983095 **Diagnosed** : 22 Apr 2024 - Don Baldrige  
**Test Package** : MAR 2 ( Additional Tests: KF )

**MARITIME COMPANY**  
 3802 PORT RIVER RD  
 PASCAGOULA, MS  
 US 39567  
 Contact: MARK KOPSZYWA  
 mark.kopszywa@signetmaritime.com  
 T:  
 F: (228)769-0629

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)