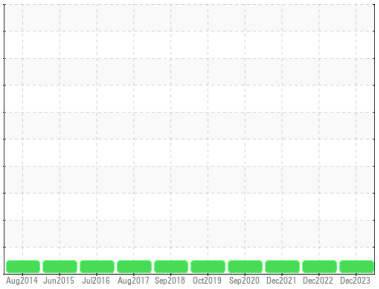
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LITHOMAN 3 PRINT UNIT #4 (S/N 1025133)
Component
Gearbox
Fluid
Walter Zeph ZX-60-Syntex (80 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0776672**	WC0651221	WC0651214
Sample Date		Client Info		**27 Dec 2023**	30 Dec 2022	28 Dec 2021
Machine Age	hrs	Client Info		**18480**	18480	18138
Oil Age	hrs	Client Info		**18983**	18480	1813
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	0	0
Iron	ppm	ASTM D5185(m)	>200	**14**	12	12
Chromium	ppm	ASTM D5185(m)	>15	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	0
Silver	ppm	ASTM D5185(m)		**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>100	**8**	8	8
Copper	ppm	ASTM D5185(m)	>200	**30**	33	32
Tin	ppm	ASTM D5185(m)	>25	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	1	1
Barium	ppm	ASTM D5185(m)		**1**	1	2
Molybdenum	ppm	ASTM D5185(m)		**6**	6	6
Manganese	ppm	ASTM D5185(m)		**35**	33	27
Magnesium	ppm	ASTM D5185(m)		**3**	3	3
Calcium	ppm	ASTM D5185(m)		**18**	16	13
Phosphorus	ppm	ASTM D5185(m)		**1496**	1621	1584
Zinc	ppm	ASTM D5185(m)		**1363**	1303	1183
Sulfur	ppm	ASTM D5185(m)		**22632**	24458	23743
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**23**	24	24
Sodium	ppm	ASTM D5185(m)		**3**	3	2
Potassium	ppm	ASTM D5185(m)	>20	**9**	8	9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**2.34**	2.41	2.33

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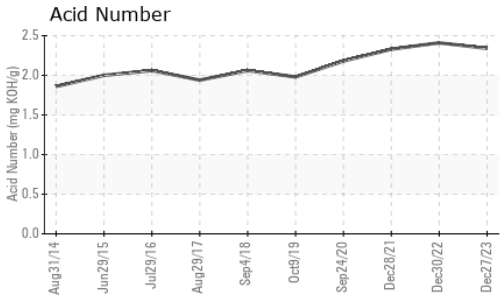
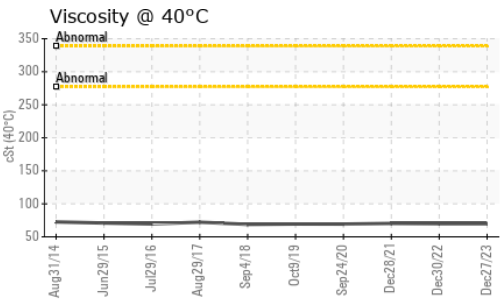
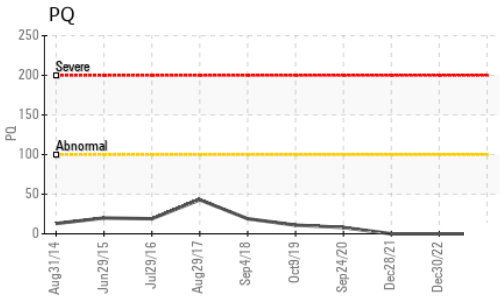




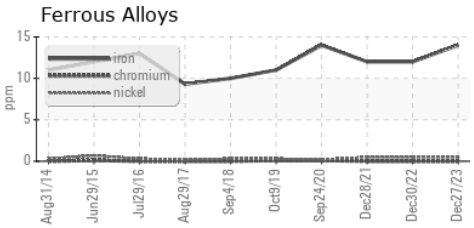


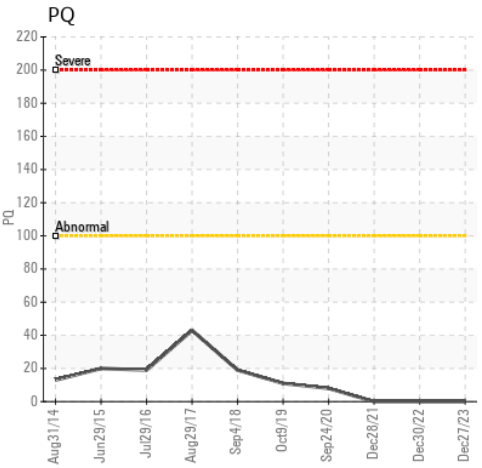
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

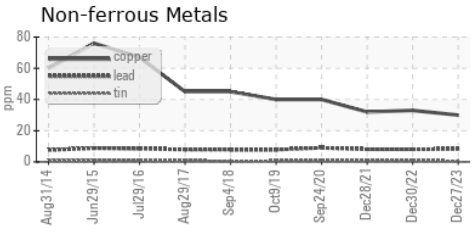
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**69.8**	69.8	70.3

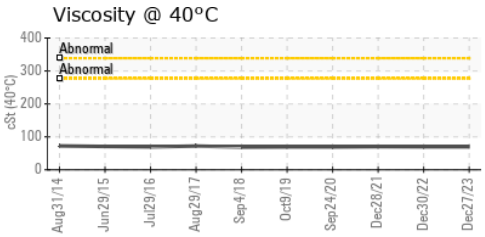
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

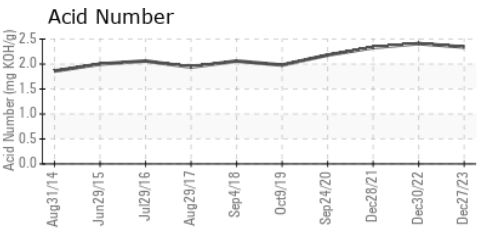
GRAPHS











ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Watch Tower Bible and Tract Society of Canada**
Sample No. : WC0776672 **Recieved** : 02 Jan 2024 13893 Highway 7
Lab Number : 02606092 **Diagnosed** : 03 Jan 2024 Georgetown, ON
Unique Number : 5707178 **Diagnostician** : Wes Davis CA L7G 4S4
Test Package : IND 2 (Additional Tests: TAN Man) Contact: Purchasing Department

To discuss this sample report, contact Customer Service at 1-800-268-2131. purchase.ca@jw.org
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)873-4101
Validity of results and interpretation are based on the sample and information as supplied. F: (905)873-4508