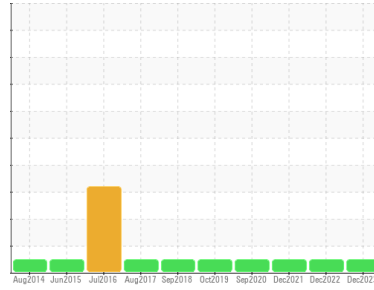




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
LITHOMAN 3 PRINT UNIT #1 (S/N 1025130)

Component
Gearbox
Fluid
NOT GIVEN (80 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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			WC0776675	WC0651218	WC0506368
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	18138
Oil Changed	Client Info			Not Changed	Not Changed	Not Changed
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	13	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	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	14	14	13
Copper	ppm	ASTM D5185(m)	>200	39	45	46
Tin	ppm	ASTM D5185(m)	>25	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	0	<1	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

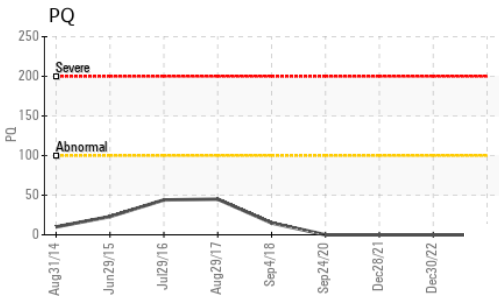
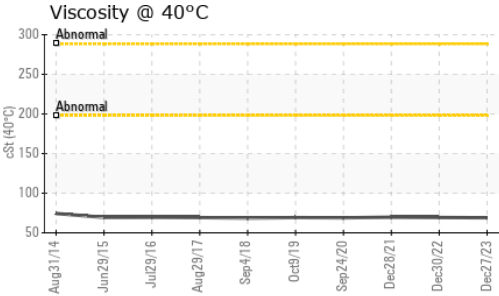
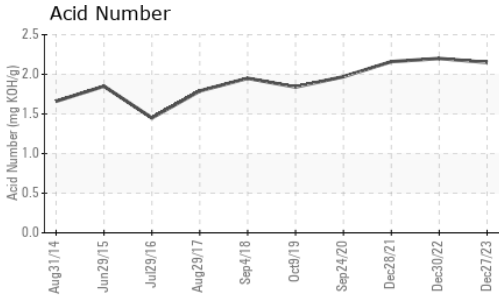
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	1	1
Barium	ppm	ASTM D5185(m)		2	2	2
Molybdenum	ppm	ASTM D5185(m)		5	5	5
Manganese	ppm	ASTM D5185(m)		35	32	29
Magnesium	ppm	ASTM D5185(m)		3	3	3
Calcium	ppm	ASTM D5185(m)		9	8	7
Phosphorus	ppm	ASTM D5185(m)		1426	1540	1496
Zinc	ppm	ASTM D5185(m)		1236	1187	1080
Sulfur	ppm	ASTM D5185(m)		21371	23191	22191
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	19	19	19
Sodium	ppm	ASTM D5185(m)		3	3	2
Potassium	ppm	ASTM D5185(m)	>20	8	6	8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		2.15	2.20	2.16



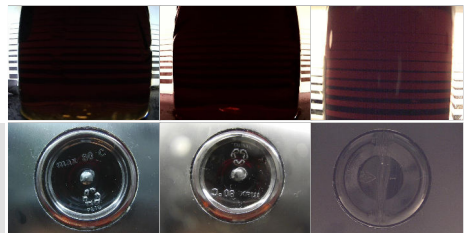
OIL ANALYSIS REPORT



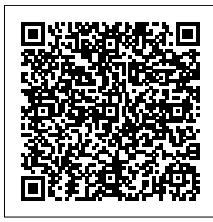
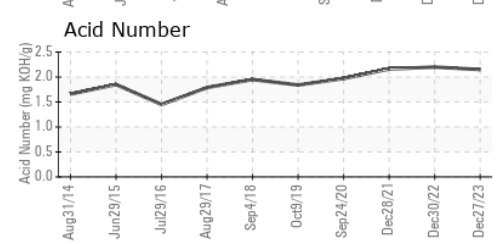
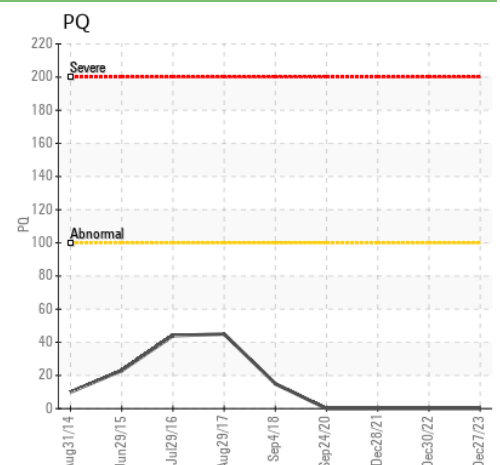
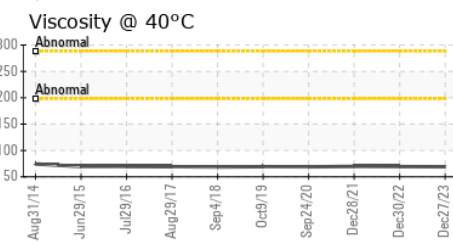
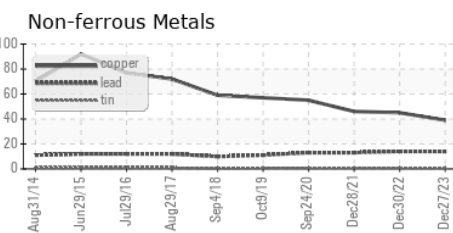
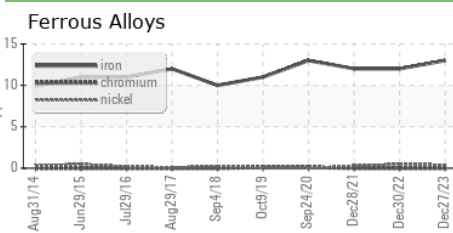
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	69.0	69.3	69.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Watch Tower Bible and Tract Society of Canada
Sample No. : WC0776675 **Received** : 02 Jan 2024 13893 Highway 7
Lab Number : 02606094 **Diagnosed** : 03 Jan 2024 Georgetown, ON
Unique Number : 5707180 **Diagnostician** : Wes Davis CA L7G 4S4
Test Package : IND 2 (Additional Tests: TAN Man)
 Contact: Purchasing Department
 purchase.ca@jw.org
 T: (905)873-4101
 F: (905)873-4508

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.