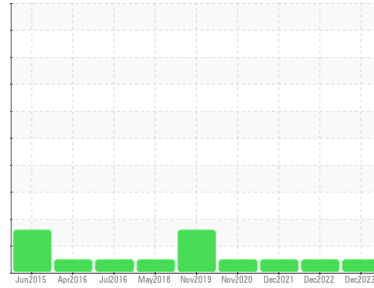




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MANROLAND 1025143 FOLDER (S/N PFI-5SMT)**

Component  
**Gearbox**

Fluid  
**Walter Zeph ZX-60-Syntex (145 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			<b>WC0776676</b>	WC0651217	WC0651213
Sample Date	Client Info			<b>27 Dec 2023</b>	30 Dec 2022	28 Dec 2021
Machine Age	hrs	Client Info		<b>18480</b>	18480	18138
Oil Age	hrs	Client Info		<b>18983</b>	18480	18138
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Filtered
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>200	<b>8</b>	8	8
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>1</b>	1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>100	<b>4</b>	4	4
Copper	ppm	ASTM D5185(m)	>200	<b>13</b>	14	13
Tin	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

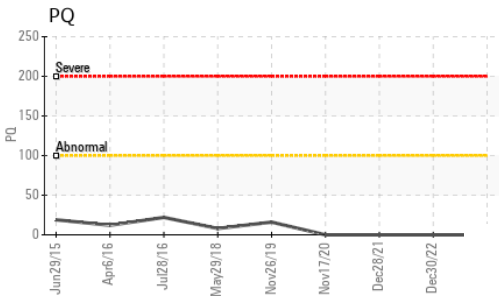
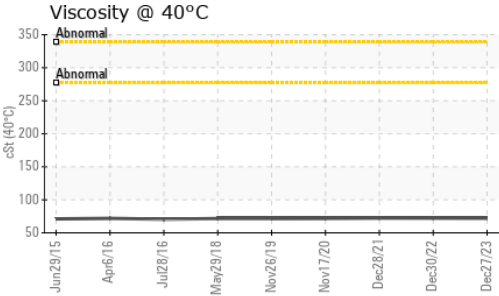
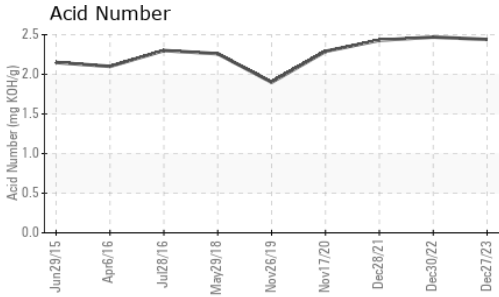
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>1</b>	2	2
Barium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Molybdenum	ppm	ASTM D5185(m)		<b>5</b>	5	6
Manganese	ppm	ASTM D5185(m)		<b>2</b>	3	3
Magnesium	ppm	ASTM D5185(m)		<b>5</b>	4	5
Calcium	ppm	ASTM D5185(m)		<b>11</b>	9	9
Phosphorus	ppm	ASTM D5185(m)		<b>1391</b>	1518	1465
Zinc	ppm	ASTM D5185(m)		<b>1021</b>	1020	941
Sulfur	ppm	ASTM D5185(m)		<b>20944</b>	23402	21762
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>26</b>	26	26
Sodium	ppm	ASTM D5185(m)		<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	8	8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>2.44</b>	2.47	2.43



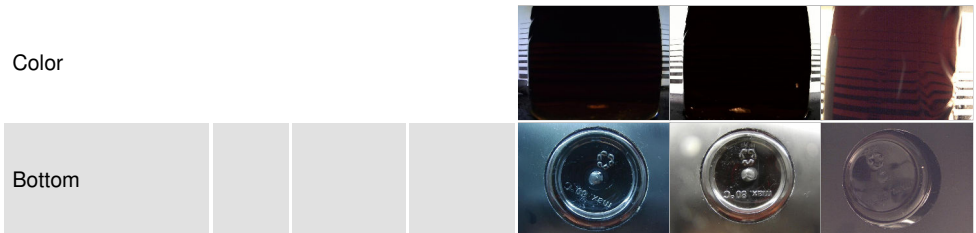
# OIL ANALYSIS REPORT



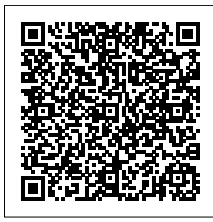
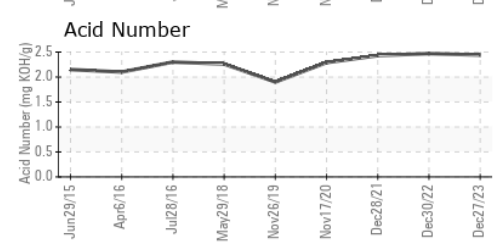
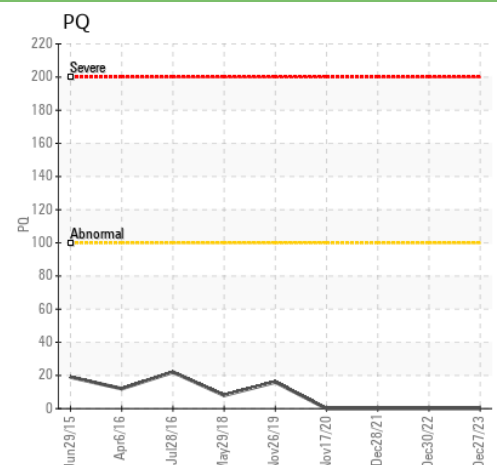
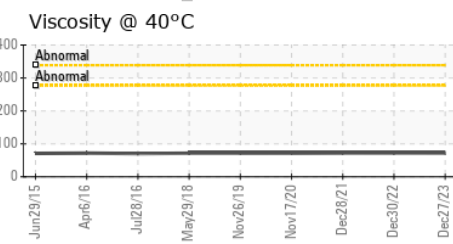
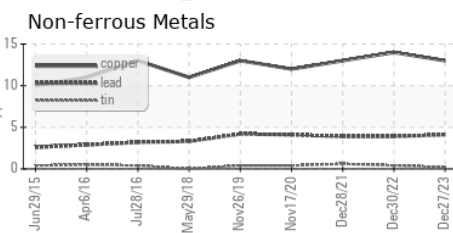
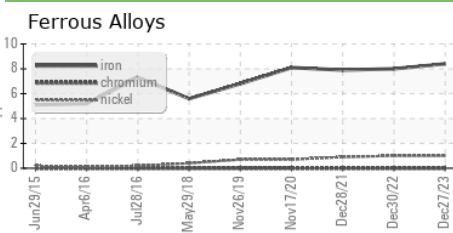
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	72.0	72.2	72.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Watch Tower Bible and Tract Society of Canada  
**Sample No.** : WC0776676 **Received** : 02 Jan 2024 13893 Highway 7  
**Lab Number** : 02606095 **Diagnosed** : 04 Jan 2024 Georgetown, ON  
**Unique Number** : 5707181 **Diagnostician** : Wes Davis CA L7G 4S4  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

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.

Contact: Purchasing Department  
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