



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Guardian
 Machine Id
6733 Thrust Jet (S/N 6732)
 Component
Port Gearbox
 Fluid
TUXTON SAE 30 (1 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

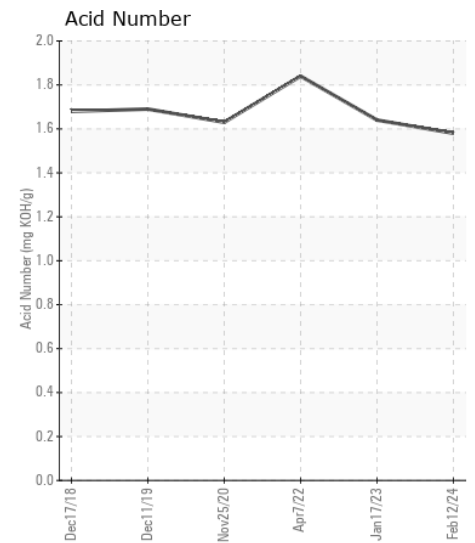
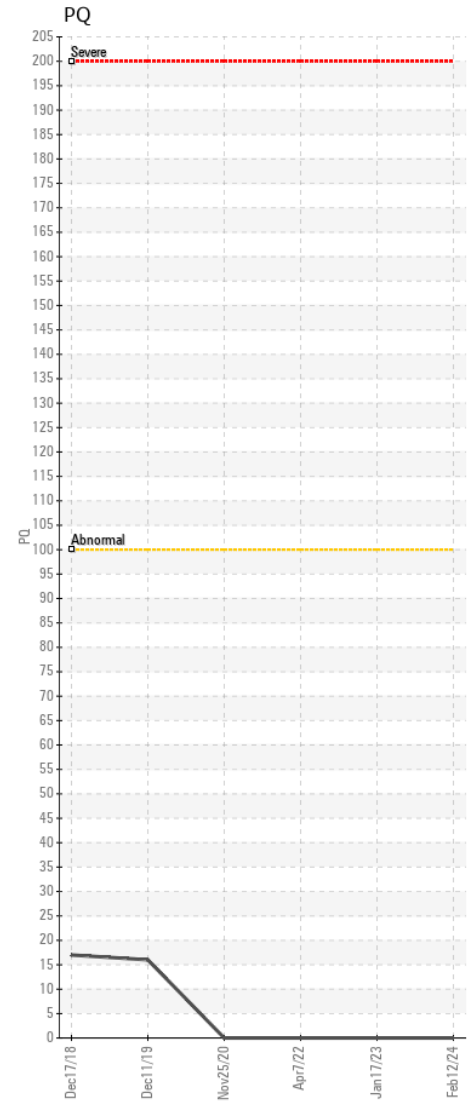
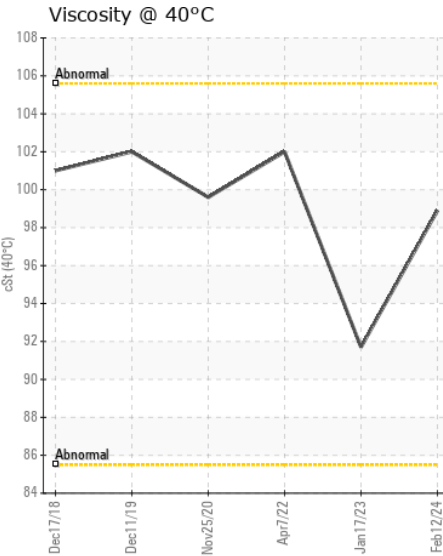
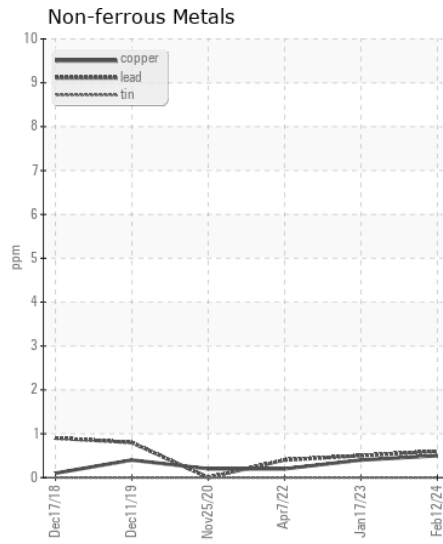
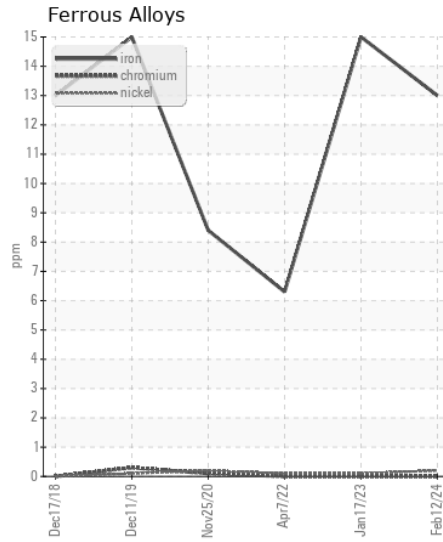
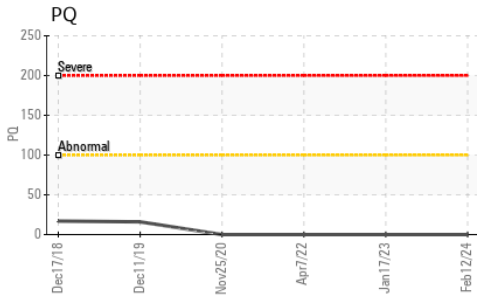
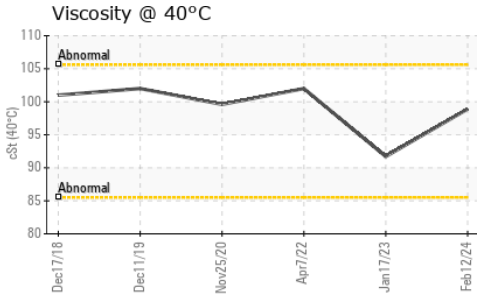
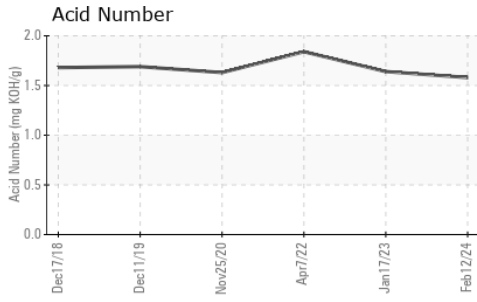
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895382	WC0764530	WC0627562
Sample Date		Client Info		12 Feb 2024	17 Jan 2023	07 Apr 2022
Machine Age	hrs	Client Info		621	548	521
Oil Age	hrs	Client Info		122	49	22
Filter Age	hrs	Client Info		0	49	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	None
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>200	13	15	6
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	19	10	5
Lead	ppm	ASTM D5185(m)	>50	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
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
Silicon	ppm	ASTM D5185(m)	>50	6	9	6
Potassium	ppm	ASTM D5185(m)	>20	2	<1	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		4	5	4
Boron	ppm	ASTM D5185(m)		4	4	5
Barium	ppm	ASTM D5185(m)		17	2	1
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		5	5	5
Calcium	ppm	ASTM D5185(m)		2996	3132	2999
Phosphorus	ppm	ASTM D5185(m)		975	1029	995
Zinc	ppm	ASTM D5185(m)		1037	1043	1046
Sulfur	ppm	ASTM D5185(m)		10674	10485	10187
Acid Number (AN)	mg KOH/g	ASTM D974*		1.58	1.64	1.84
Visc @ 40°C	cSt	ASTM D7279(m)		98.9	91.7	102



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895382
Lab Number : 02616085
Unique Number : 5733195
Test Package : MAR 2 (Additional Tests: TAN Man)
Received : 15 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Wes Davis

Niagara City Cruises (Hornblower)
 5775 River Road
 Niagara Falls, ON
 CA L2G 3K9
 Contact: Evan Dubblestyn
 evan.dubblestyn@cityexperiences.com
 T: (519)373-4663
 F: x:

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.