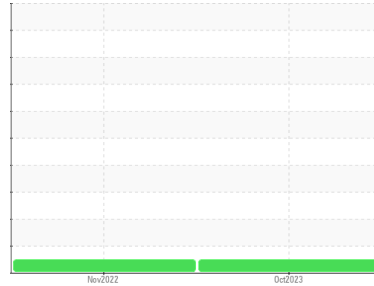


Area
Vessel
Machine Id
KAT 010 (M/E Reduction Gear)
Component
Gearbox
Fluid
NOT GIVEN (250 LTR)



DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: Kat 010)

Wear
All component wear rates are normal.

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

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0018593	PC0031770	---
Sample Date	Client Info	18 Oct 2023	08 Nov 2022	---
Machine Age	hrs Client Info	0	0	---
Oil Age	hrs Client Info	0	0	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>150	5	5	---
Chromium ppm ASTM D5185(m)	>10	0	0	---
Nickel ppm ASTM D5185(m)	>10	0	0	---
Titanium ppm ASTM D5185(m)		0	0	---
Silver ppm ASTM D5185(m)		<1	0	---
Aluminum ppm ASTM D5185(m)	>5	0	0	---
Lead ppm ASTM D5185(m)	>65	3	3	---
Copper ppm ASTM D5185(m)	>80	11	11	---
Tin ppm ASTM D5185(m)	>8	0	<1	---
Antimony ppm ASTM D5185(m)	>5	0	0	---
Vanadium ppm ASTM D5185(m)		0	0	---
Beryllium ppm ASTM D5185(m)		0	0	---
Cadmium ppm ASTM D5185(m)		0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		2	2	---
Barium ppm ASTM D5185(m)		<1	0	---
Molybdenum ppm ASTM D5185(m)		0	<1	---
Manganese ppm ASTM D5185(m)		0	0	---
Magnesium ppm ASTM D5185(m)		<1	<1	---
Calcium ppm ASTM D5185(m)		57	61	---
Phosphorus ppm ASTM D5185(m)		278	317	---
Zinc ppm ASTM D5185(m)		19	21	---
Sulfur ppm ASTM D5185(m)		5836	6109	---
Lithium ppm ASTM D5185(m)		<1	<1	---

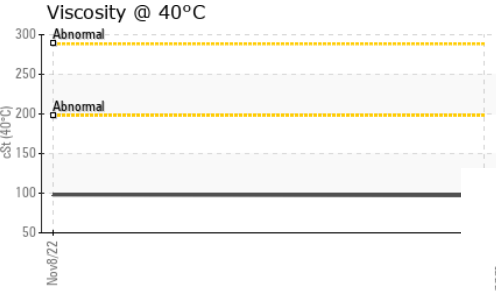
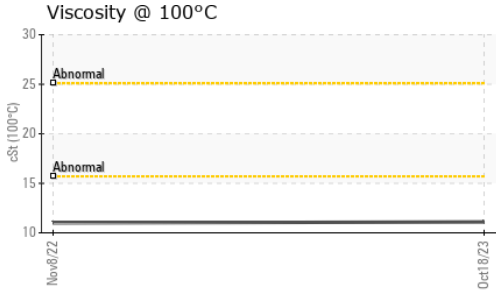
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	2	1	---
Sodium ppm ASTM D5185(m)		2	2	---
Potassium ppm ASTM D5185(m)	>20	0	0	---

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	---

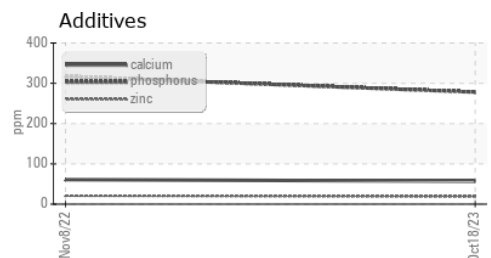
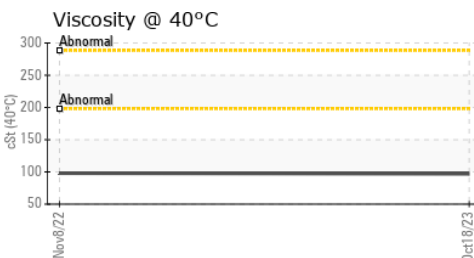
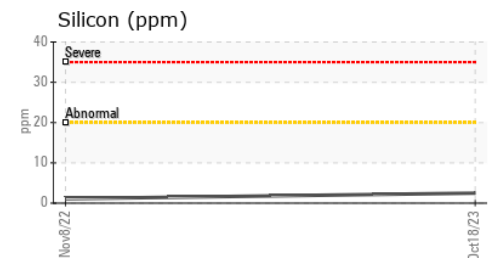
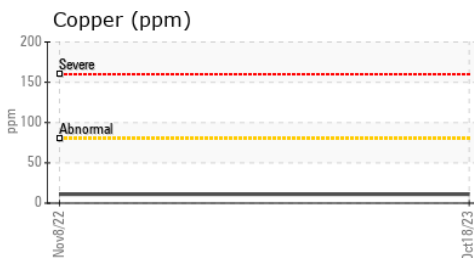
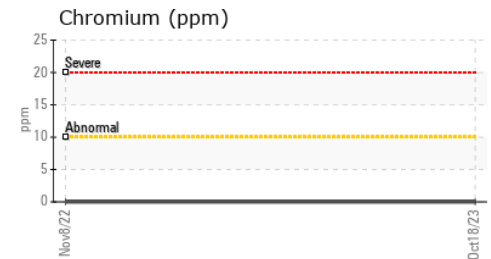
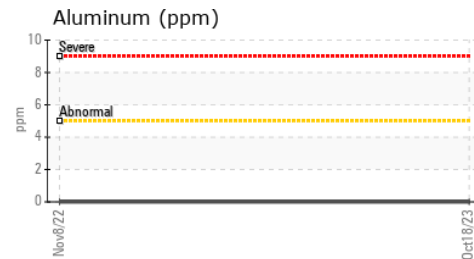
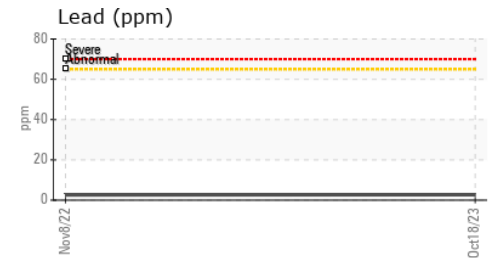
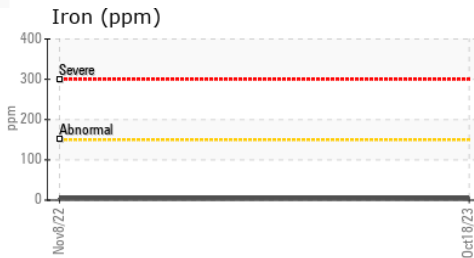
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		97.1	98.0	---
Visc @ 100°C	cSt	ASTM D7279(m)		11.1	11.0	---
Viscosity Index (VI)	Scale	ASTM D2270*		99	96	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Ocean Choice International - Katsheshuk II
Sample No. : PC0018593 **Received** : 27 Oct 2023
Lab Number : 02592451 **Diagnosed** : 27 Oct 2023
Unique Number : 5669530 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, VI)

1315 Topsail Rd, P.O. Box 8190
 St. John's, NL
 CA A1B 3N4
 Contact: Chief Engineer
 katengine@oceanchoice.com

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.