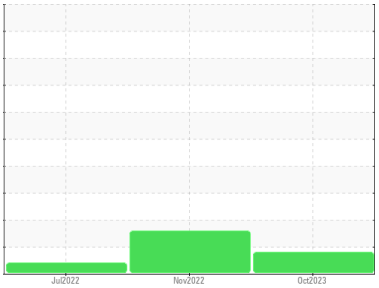
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
Vessel
Machine Id
KAT 014 (Refrigeration Compressors #1 & #2)
Component
Compressor
Fluid
ESSO ZERICE S 68 (250 LTR)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: KAT014)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0018596**	PC0031768	PC0018572
Sample Date		Client Info		**18 Oct 2023**	08 Nov 2022	24 Jul 2022
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL

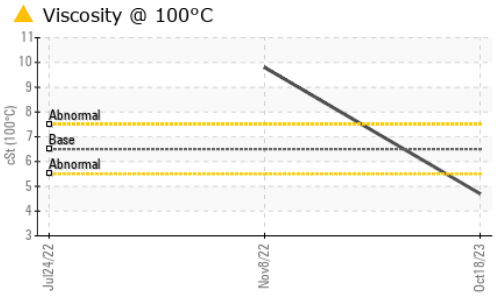
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	**7**	23	10
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>15	**0**	0	0
Lead	ppm	ASTM D5185(m)	>65	**<1**	0	0
Copper	ppm	ASTM D5185(m)	>65	**1**	1	2
Tin	ppm	ASTM D5185(m)	>10	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

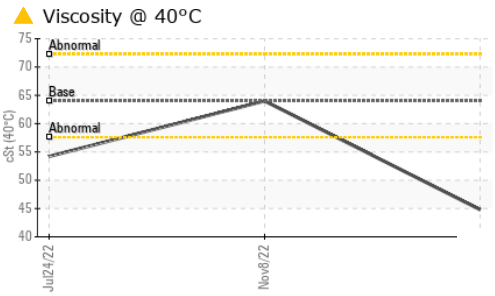
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**2**	<1	<1
Barium	ppm	ASTM D5185(m)		**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	<1	0
Magnesium	ppm	ASTM D5185(m)		**0**	4	<1
Calcium	ppm	ASTM D5185(m)		**0**	▲ 42	0
Phosphorus	ppm	ASTM D5185(m)		**<1**	▲ 311	1
Zinc	ppm	ASTM D5185(m)		**<1**	▲ 339	<1
Sulfur	ppm	ASTM D5185(m)		**12**	▲ 2352	41
Lithium	ppm	ASTM D5185(m)		**1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	**1**	3	2
Sodium	ppm	ASTM D5185(m)		**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**0**	0	0

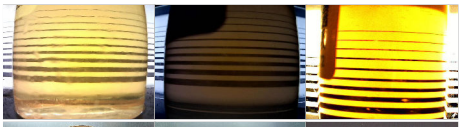
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

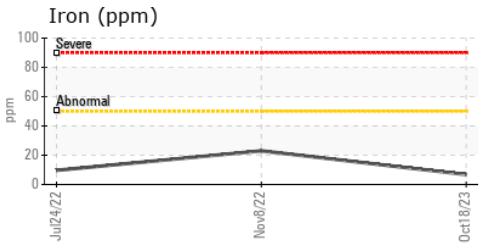


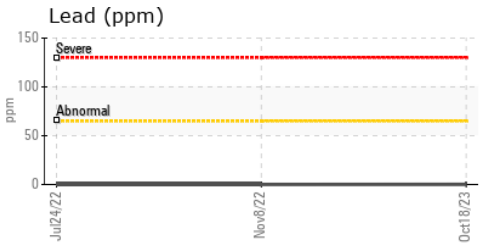


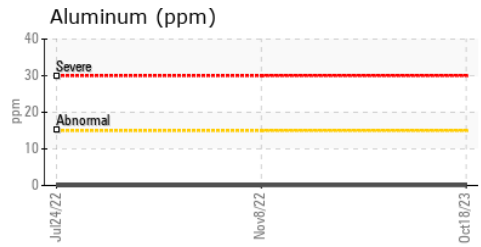
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	64	▲ **44.8**	64.0	▲ 54.2
Visc @ 100°C	cSt	ASTM D7279(m)	6.5	▲ **4.7**	9.8	---
Viscosity Index (VI)	Scale	ASTM D2270*		**---**	136	---

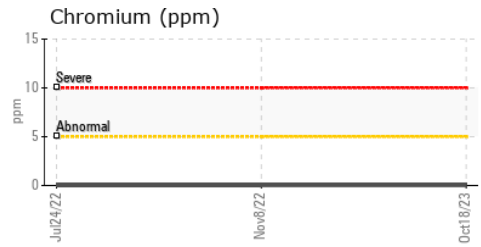
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

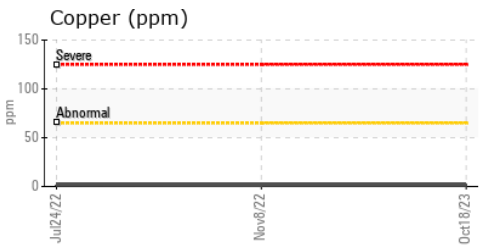
GRAPHS

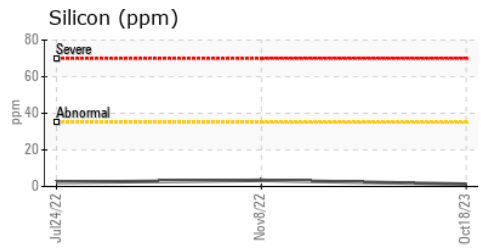


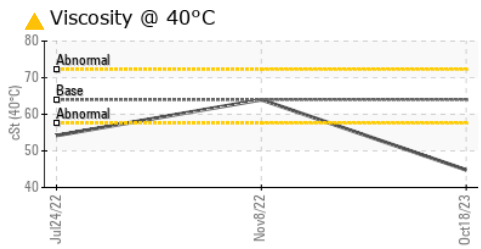


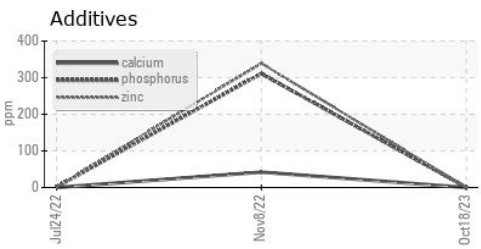












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0018596
Lab Number : 02592418
Unique Number : 5669497
Test Package : MOB 1 (Additional Tests: KV100, VI)

Received : 27 Oct 2023
Diagnosed : 27 Oct 2023
Diagnostician : Kevin Marson

Ocean Choice International - Katsheshuk II
1315 Topsail Rd, P.O. Box 8190
St. John`s, NL
CA A1B 3N4
Contact: Chief Engineer
katengine@oceanchoice.com
T:
F:

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.