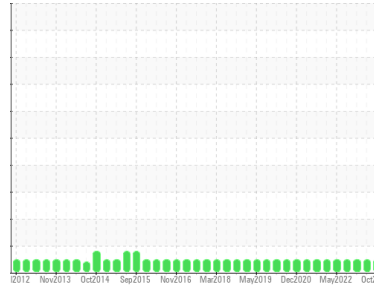




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Powerhouse Machine Room**  
 Machine Id  
**UBLUBE1**  
 Component  
**Bearing**  
 Fluid  
**SHELL TELLUS 46 (720 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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>WC</b>	WC	WC
Sample Date	Client Info	<b>24 Oct 2023</b>	26 Jun 2023	02 Feb 2023
Machine Age	mths Client Info	<b>0</b>	0	0
Oil Age	mths Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>0</b>	<1	0
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>0</b>	<1	0
Lead	ppm ASTM D5185(m) >20	<b>2</b>	2	2
Copper	ppm ASTM D5185(m) >20	<b>68</b>	66	70
Tin	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
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) 0.0	<b>&lt;1</b>	<1	0
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185(m) 11	<b>8</b>	9	9
Calcium	ppm ASTM D5185(m) 35	<b>28</b>	29	30
Phosphorus	ppm ASTM D5185(m) 266	<b>231</b>	245	252
Zinc	ppm ASTM D5185(m) 276	<b>239</b>	240	236
Sulfur	ppm ASTM D5185(m) 1847	<b>1225</b>	1288	1271
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>4391</b>	131	63
Particles >6µm	ASTM D7647 >2500	<b>853</b>	33	26
Particles >14µm	ASTM D7647 >160	<b>16</b>	3	5
Particles >21µm	ASTM D7647 >40	<b>4</b>	2	3
Particles >38µm	ASTM D7647 >10	<b>1</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/14	<b>19/17/11</b>	14/12/9	13/12/10

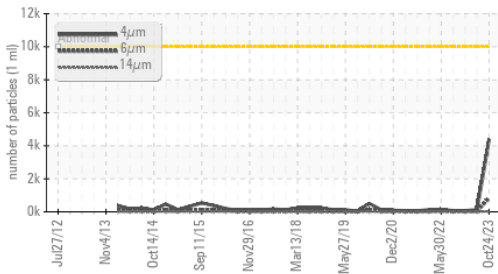
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.36	<b>0.24</b>	0.30	0.25

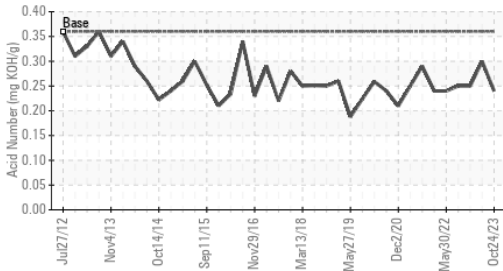


# OIL ANALYSIS REPORT

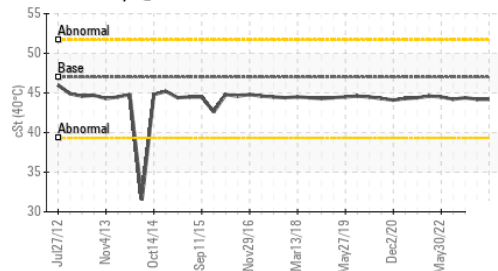
Particle Trend



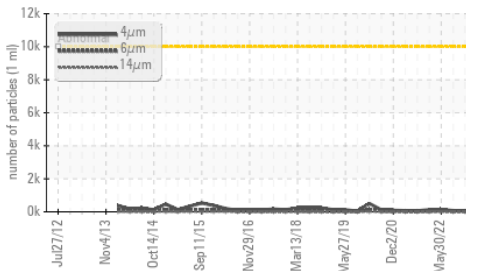
Acid Number



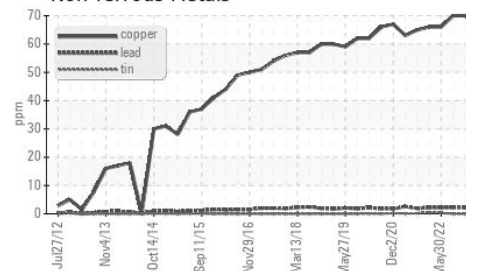
Viscosity @ 40°C



Particle Trend



Non-ferrous Metals

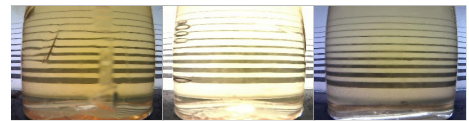


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.99	44.2	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

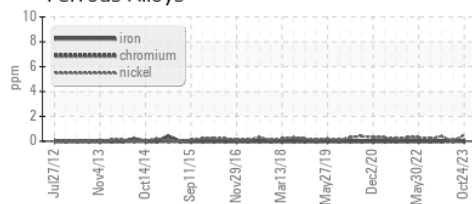


Bottom

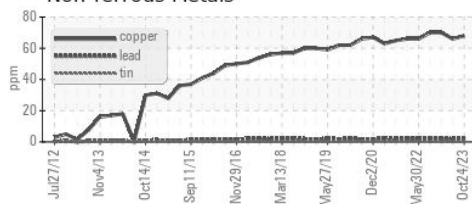


## GRAPHS

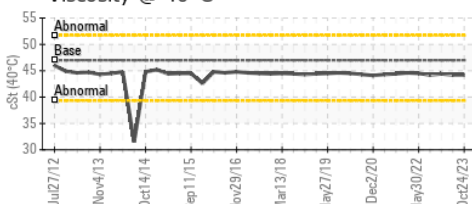
Ferrous Alloys



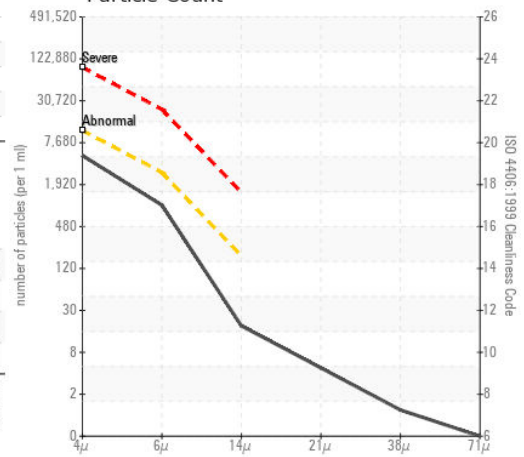
Non-ferrous Metals



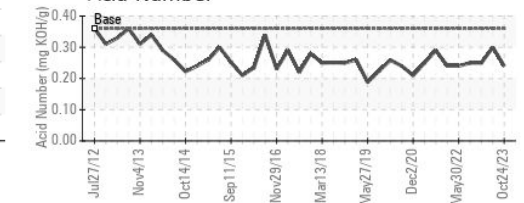
Viscosity @ 40°C



Particle Count



Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC  
**Lab Number** : 02592678  
**Unique Number** : 5669757  
**Test Package** : IND 2

**Bear Creek (Regional Power)**  
 2557 Miles Rd.  
 Roberts Creek, BC  
 CA V0N 2W4  
 Contact: James Florence  
 jlflorence@cclinfrastucture.com  
 T: (604)741-8188  
 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.