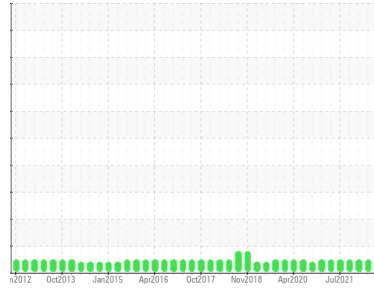




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**STARBOARD CRANE**  
 Machine Id  
**58-GB-7651A STARBOARD CRANE AGGREGATE GEARBOX (S/N Maint Plan 28275)**  
 Component  
**Starboard Gearbox**  
 Fluid  
**MOBIL MOBILUBE HD PLUS 75W (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### 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		<b>WC0711675</b>	WC0590012	WC0590017
Sample Date	Client Info		<b>03 Aug 2023</b>	15 May 2022	18 Jan 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	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) >150	<b>14</b>	40	39
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;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) >5	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >65	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >80	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m) >8	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<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)	<b>185</b>	155	152
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	<b>7</b>	14	15
Phosphorus	ppm	ASTM D5185(m)	<b>1325</b>	1251	1226
Zinc	ppm	ASTM D5185(m)	<b>63</b>	91	90
Sulfur	ppm	ASTM D5185(m)	<b>19658</b>	19671	19378
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

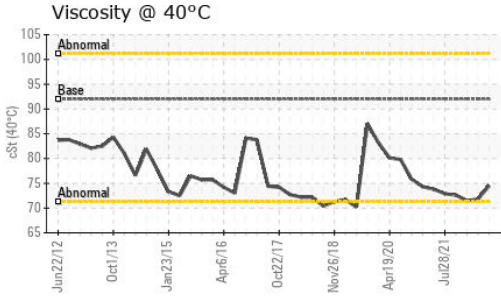
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>8</b>	6	5
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	<1

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual* NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual* >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

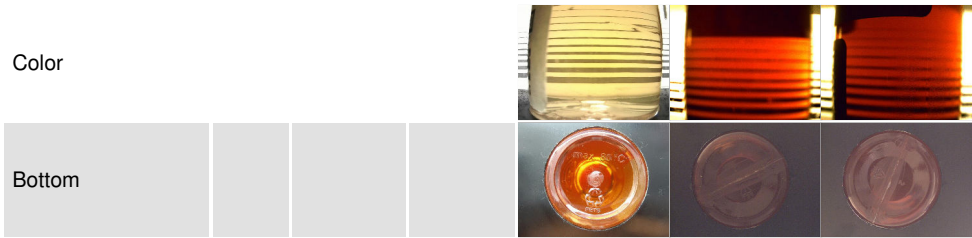


# OIL ANALYSIS REPORT

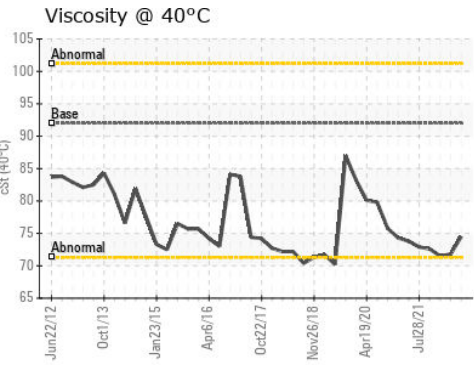
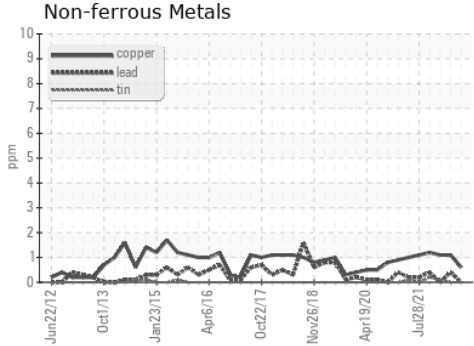
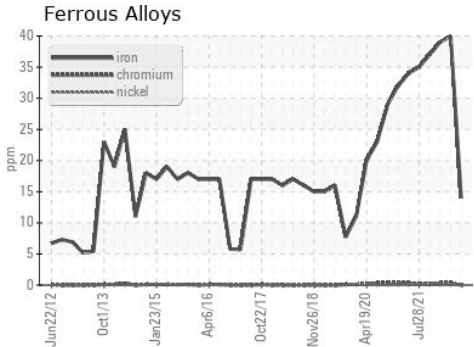


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	92	<b>74.5</b>	71.8	71.5

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **HUSKY SEA ROSE /AKER SOLUTIONS**  
**Sample No.** : WC0711675 **Received** : 05 Sep 2023 PO BOX 20  
**Lab Number** : 02580487 **Diagnosed** : 06 Sep 2023 ST. JOHN'S, NL  
**Unique Number** : 5633547 **Diagnostician** : Wes Davis CA A1C 6C9  
**Test Package** : IND 1 Contact: Maintenance Supervisor

To discuss this sample report, contact Customer Service at 1-800-268-2131. maintsuper.searose@huskyenergy.ca  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: x:  
 Validity of results and interpretation are based on the sample and information as supplied. F: x: