

# **PROBLEM SUMMARY**

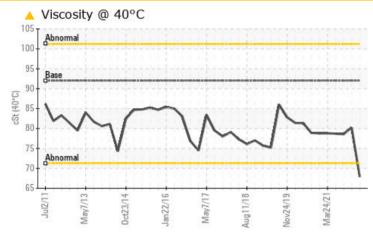
# STARBOARD CRANE

58-GB-7651B STARBOARD CRANE AGGREGATE GEARBOX (S/N Maint Plan 28275)

Component Starboard Gearbox

### MOBIL MOBILUBE HD PLUS 75W (--- LTR)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Visc @ 40°C	cSt	ASTM D7279(m)	92	<u> </u>	80.2	78.6	

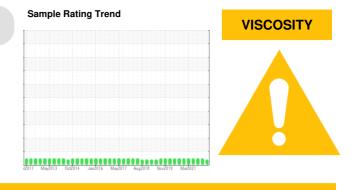
Customer Id: SPESTJ Sample No.: WC0711674 Lab Number: 02580490 Test Package: IND 1



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		

### HISTORICAL DIAGNOSIS



15 May 2022 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



view report

#### 16 Nov 2021 Diag: Wes Davis



6 NOV 2021 Diag: wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

29 Jun 2021 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.









## **OIL ANALYSIS REPORT**

### STARBOARD CRANE 58-GB-7651B STARBOARD CRANE AGGREGATE GEARBOX (S/N Maint Plan 28275) Component

**Starboard Gearbox** Flui

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

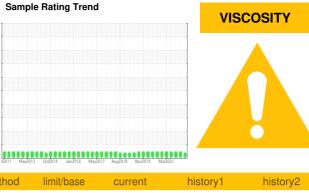
All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

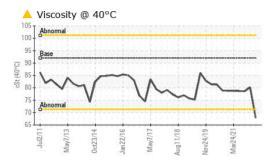
The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.



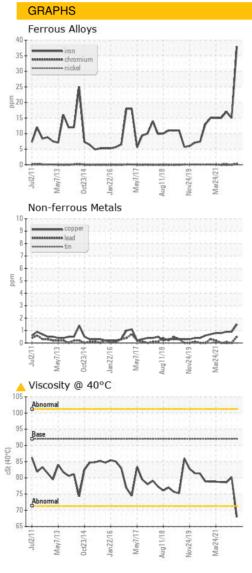
Sample Number	SAMPLE INFORMATION		limit/base	current	history1	history2
		Client Info		WC0711674	WC0590013	WC0590034
Sample Date		Client Info		03 Aug 2023	15 May 2022	16 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	38	15	17
Chromium	ppm	ASTM D5185(m)	>10	<1	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>65	<1	0	0
Copper	ppm		>80	2	<1	<1
Tin	ppm	ASTM D5185(m)	>8	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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)		136	187	191
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1
Calcium	ppm	ASTM D5185(m)		15	8	9
Phosphorus	ppm	ASTM D5185(m)		1254	1341	1352
Zinc	ppm	ASTM D5185(m)		131	44	50
Sulfur	ppm	ASTM D5185(m)		17888	22048	21260
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	8	9
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
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	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt		1/:	NORML	NORML	NORML	NORML
	scalar	Visual*	NORIVIL	NORIVIL	NOTIVIL	NOTIVIE
Appearance	scalar scalar	Visual*	NORML	NORML	NORML	NORML
Sand/Dirt Appearance Odor Emulsified Water						



# **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	92	67.9	80.2	78.6
SAMPLE IMAG	SAMPLE IMAGES		limit/base	current	history1	history2
Color						
Bottom						



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY SEA ROSE / AKER SOLUTIONS Laboratory CALA Sample No. : WC0711674 Received : 05 Sep 2023 PO BOX 20 Lab Number : 02580490 Diagnosed : 06 Sep 2023 ST. JOHN`S, NL ISO 17025:2017 Accredited Laboratory Unique Number : 5633550 Diagnostician : Kevin Marson 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 T: x: 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. F: x: