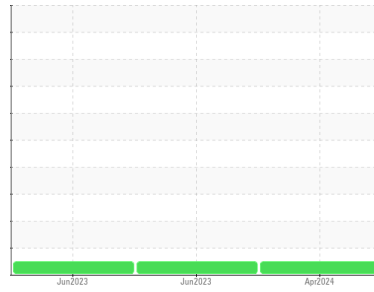




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

[6411-4.5]

Machine Id

**SIKORSKY 2ND STAGE (S/N 760416)**

Component

**Hydraulic System**

Fluid

**SHELL AEROSHELL FLUID 31 (--- 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. 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>WC0854764</b>	WC0833729	WC0833731
Sample Date	Client Info			<b>03 Apr 2024</b>	27 Jun 2023	27 Jun 2023
Machine Age	hrs	Client Info		<b>4546</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>0</b>	---	0
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	---	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	---	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	---	<1
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	---	0
Copper	ppm	ASTM D5185(m)	>20	<b>0</b>	---	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	---	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	0

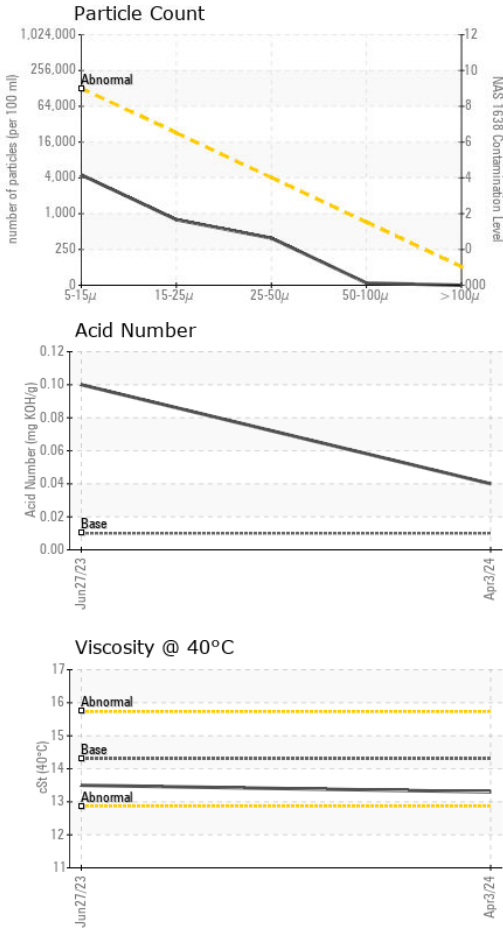
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>0</b>	---	<1
Barium	ppm	ASTM D5185(m)		<b>3</b>	---	4
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	<1
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	<1
Phosphorus	ppm	ASTM D5185(m)		<b>671</b>	---	693
Zinc	ppm	ASTM D5185(m)		<b>3</b>	---	5
Sulfur	ppm	ASTM D5185(m)		<b>115</b>	---	118
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	<1

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

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>128000	<b>4498</b>	---	5856
Particles 15-25µm	count	NAS 1638	>22800	<b>793</b>	---	341
Particles 25-50µm	count	NAS 1638	>4050	<b>388</b>	---	253
Particles 50-100µm	count	NAS 1638	>720	<b>16</b>	---	13
Particles >100µm	count	NAS 1638	>128	<b>0</b>	---	29
NAS 1638	Class	NAS 1638	>9	<b>6</b>	---	7



# OIL ANALYSIS REPORT

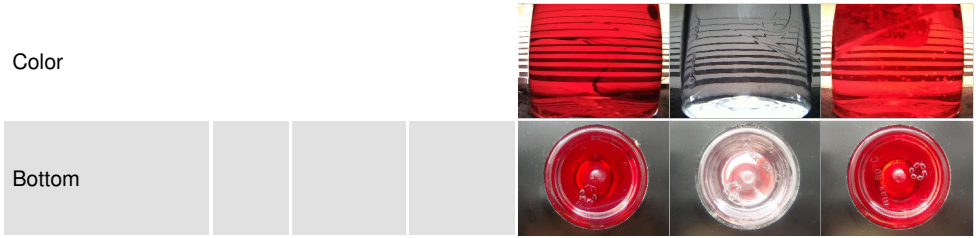


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.01	<b>0.04</b>	---	0.10

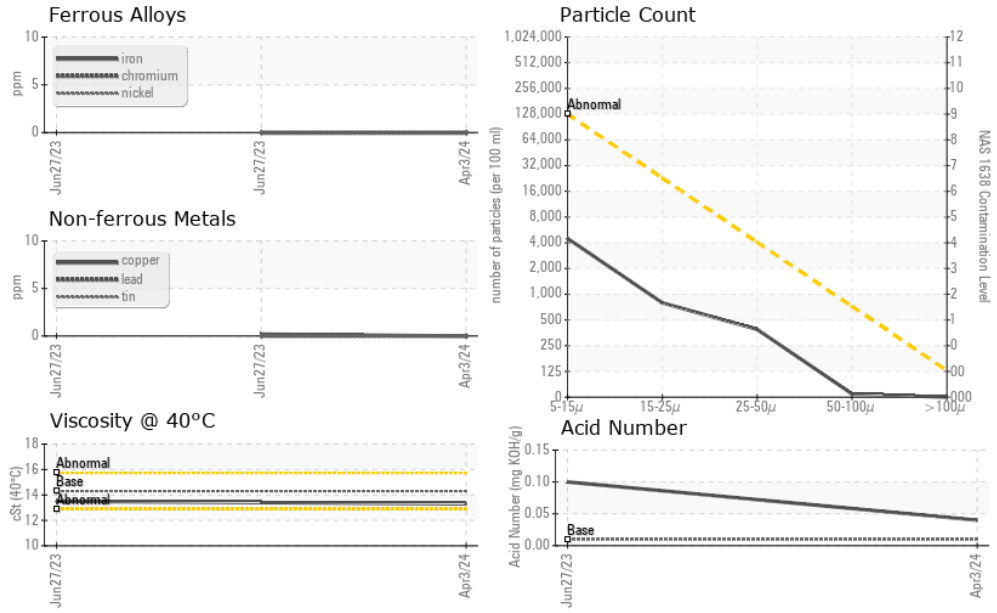
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	14.3	<b>13.3</b>	---	13.5

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0854764  
**Lab Number** : 02627326  
**Unique Number** : 5760458  
**Test Package** : IND 2 ( Additional Tests: PrtCountNAS )

**Rotor Maxx Support Ltd**  
 1420 Springhill Rd  
 Parksville, BC  
 CA V9P 2T2  
 Contact: Laura Masur  
 laura.masur@rotor maxx.com  
 T: (250)248-1915  
 F: (250)248-1970

*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.*