

## **PROBLEM SUMMARY**

# KASTO SAW #10 (Saw Cut - NGOM) - cc4975

### Hydraulic System

AW HYDRAULIC OIL ISO 15 (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 15. Please confirm.

NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ATTENTION	ATTENTION
Particles >4µm	ASTM D7647	>5000	<u> </u>	<b>9</b> 798	<b>A</b> 7017
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 20/17/12	🔺 20/18/15	🔺 20/17/13

Customer Id: HUSBOLED Sample No.: WC0887627 Lab Number: 02602257 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



DECOM	AMENDED	
	VIIVIEINDED	ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are thereforn generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### **HISTORICAL DIAGNOSIS**



### 04 Oct 2021 Diag: Kevin Marson

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 02 Mar 2021 Diag: Kevin Marson



Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The AN level is





view report





## **OIL ANALYSIS REPORT**

# KASTO SAW #10 (Saw Cut - NGOM) - cc4975

Hydraulic System

### DIAGNOSIS

### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 15. Please confirm.

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 a light amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887627	WC0630881	WC0586088
Sample Date		Client Info		10 Dec 2023	04 Oct 2021	16 May 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				ATTENTION	ATTENTION	ATTENTION
		mothod	limit/baco	ourropt	history1	history?
	N					NEO
vvater		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	0	<1
Lead	ppm	ASTM D5185(m)	>20	<1	0	<1
Copper	ppm	ASTM D5185(m)	>20	2	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	<1	0
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
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current <1	history1 1	history2 <1
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base 5 5	current <1 <1	history1 1 0	history2 <1 <1
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5	current <1 <1 0	history1 1 0 0	history2 <1 <1 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 5	<pre>current &lt;1 &lt;1 0 0 0</pre>	history1 1 0 0 0	history2 <1 <1 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25	<1 <1 <1 0 <0 <1 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	history1 1 0 0 0 1	history2 <1 <1 0 <1 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200	<pre>current &lt;1 &lt;1 0 0 &lt;1 &lt;1 57</pre>	history1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	history2 <1 <1 0 <1 4 192
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200 300	<pre>current &lt;1 &lt;1 0 0 &lt;1 &lt;1 57 299</pre>	history1 1 0 0 0 1 1 190 101	history2 <1 <1 0 <1 4 192 92
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200 300 370	<pre>current &lt;1 &lt;1 0 0 &lt;1 57 299 359</pre>	history1 1 0 0 0 1 1 190 101 15	history2 <1 <1 0 <1 4 192 92 17
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200 300 370 2500	<pre>current &lt;1 &lt;1 0 0 &lt;1 57 299 359 960</pre>	history1 1 0 0 0 1 1 190 101 15 3456	history2 <1 <1 0 <1 4 192 92 17 3363
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200 300 370 2500	<pre>current &lt;1 &lt;1 0 0 &lt;1 57 299 359 960 &lt;1 </pre>	history1  1  0  0  1  1  1  0  1  1  1  1  1  1	history2 <1 <1 0 <1 4 192 92 17 3363 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	<1         <1         0         0         <1         57         299         359         960         <1         current	history1  1  0  0  1  1  1  1  0  1  1  1  1  1	history2 <1 <1 0 <1 4 192 92 17 3363 <1 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185(m)ASTM D5185(m)	limit/base 5 5 5 200 300 370 2500 2500 limit/base >15	<ul> <li>current</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>57</li> <li>299</li> <li>359</li> <li>960</li> <li>&lt;1</li> <li>current</li> <li>2</li> </ul>	history1         1         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         101         15         3456         <1         history1         16	history2 <1 <1 0 <1 4 192 92 17 3363 <1 history2 15
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base 5 5 5 25 200 300 370 2500 2500 limit/base >15	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1	history1         1         0         0         1         1         0         0         1         190         101         15         3456         <1         history1         16         5	history2 <1 <1 0 <1 4 192 92 17 3363 <1 history2 15 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	limit/base 5 5 5 200 300 370 2500 2500 Limit/base >15 5 20	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1         0	history1         1         0         0         1         1         1         1         1         1         1         1         1         1         1         1         101         15         3456         <1         history1         16         5         <1	<1         <1         0         <1         192         92         17         3363         <1         history2         15         6         <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	limit/base 5 5 25 200 300 370 2500 2500 limit/base >15 >20	<1         <1         0         <1         0         <1         57         299         359         960         <1         current         2         1         0         current         0         current	history1         1         0         0         1         1         1         1         0         0         1         190         101         15         3456         <1         history1         16         5         <1         history1	<1         <1         0         <1         192         92         17         3363         <1         history2         15         6         <1         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	limit/base 5 5 5 200 300 370 2500 2500 limit/base >20 limit/base >5000	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1         0         current         0         current         9541	history1         1         0         0         1         1         1         1         0         0         1         190         101         15         3456         <1	history2 <1 <1 0 <1 4 192 92 17 3363 <1 history2 15 6 <1 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	limit/base 5 5 5 200 300 370 2500 2500 2500 limit/base >20 limit/base >5000 >1300	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1         0         current         0         current         1         0         current         9541         1158	history1         1         0         0         1         101         15         3456         <1	history2 <1 <1 0 <1 4 192 92 17 3363 <1 history2 15 6 <1 history2 15 6 <1 history2 15 6 <1 15 6 <1 19 15 6 <1 15 6 <1 15 15 15 15 15 15 15 15 15 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	limit/base 5 5 5 200 300 370 2500 370 2500 limit/base >15 S 20 limit/base >20 2 5000 >1300 >1300 >160	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1         0         current         2         1         0         current         9541         1158         33	history1         1         0         0         1         1         1         1         0         1         1         101         15         3456         <1         history1         16         5         <1         history1         16         5         <1         9798         2110         176	history2    <1   0   <1   4   192   92   17   3363   <1   history2   15   6   <1   history2   15   6   <1   102   103   49
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647           ASTM D7647           ASTM D7647	limit/base 5 5 25 200 300 370 2500 2500 limit/base >15 limit/base >20 limit/base >5000 >1300 >160 >40	<ul> <li>&lt;1</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>57</li> <li>299</li> <li>359</li> <li>960</li> <li>&lt;1</li> <li>current</li> <li>2</li> <li>1</li> <li>0</li> <li>current</li> <li>9541</li> <li>1158</li> <li>33</li> <li>7</li> </ul>	history1         1         0         0         1         101         15         3456         <1         history1         16         5         <1         history1         16         5         <1         110         11	history2    <1   0   <1   4   192   92   17   3363   <1   history2   15   6   <1   history2   15   6   <1   1081   49   7
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647	limit/base 5 5 25 200 300 370 2500 2500 2500 limit/base >15 20 limit/base >5000 >1300 >1300 >160 >40	<ul> <li>current</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>57</li> <li>299</li> <li>359</li> <li>960</li> <li>&lt;1</li> <li>current</li> <li>2</li> <li>1</li> <li>0</li> <li>current</li> <li>9541</li> <li>1158</li> <li>33</li> <li>7</li> <li>2</li> </ul>	history1         1         0         0         1         101         15         3456         <1         history1         16         5         <1         history1         16         5         <1         history1         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         170         43         2	history2 <li>&lt;1 <ul> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>4</li> <li>192</li> <li>92</li> <li>17</li> <li>3363</li> <li>&lt;1</li> </ul> </li> <li>history2 <ul> <li>15</li> <li>6</li> <li>&lt;1</li> </ul> </li> <li>history2</li> <li>7017 <ul> <li>1081</li> <li>49</li> <li>7</li> <li>0</li> </ul></li>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647	limit/base 5 5 25 200 300 370 2500 370 2500 370 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 >10	<1         <1         0         0         <1         57         299         359         960         <1         current         2         1         0         current         0         current         33         7         2         1	history1         1         0         0         1         190         11         190         101         15         3456         <1         history1         16         5         <1         history1         16         5         <1         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         5         <10         16         176         43         2         0	history2    <1   0   <1   4   192   92   17   3363   <1   history2   15   6   <1   history2   15   6   <1   102   15   7017   1081   49   7   0   0

Contact/Location: Robert Cameron - HUSBOLED



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20 Abnorm

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# **OIL ANALYSIS REPORT**



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.42	0.14	0.12
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	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*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	15	16.3	43.9	44.1
SAMPLE IMAGES		method	limit/base	current	history1	history2



May16/21

/lav1

0ct4/21

0ct4/21

lec10/23

Color

Bottom





Laboratory CALA Sample No. Lab Number : 02602257 : 12 Dec 2023 BOLTON, ON Diagnosed ISO 17025:2017 Accredited Laboratory Unique Number : 5695342 Diagnostician : Wes Davis CA L7E 5S5 Test Package : IND 2 Contact: Robert Cameron To discuss this sample report, contact Customer Service at 1-800-268-2131. rcameron@husky.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)951-5000 Validity of results and interpretation are based on the sample and information as supplied. F: (905)951-5167

Contact/Location: Robert Cameron - HUSBOLED