

# **PROBLEM SUMMARY**

# WQR Machine Id CATHHPU8 (S/N UJ918A-8)

Component Hydraulic System Fluid ESSO NUTO H ISO 46 (160 LTR)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

# abba Juddol Nevdoll Nevdoll Nevdoll Nevdoll Nevdoll Avadoll Juddol Avadol

DIRT

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Silicon	ppm	ASTM D5185(m)	>15	<u> </u>	<b>1</b> 7	<b>1</b> 7		

Sample Rating Trend

Customer Id: ALGMIS Sample No.: WC0779200 Lab Number: 02579119 Test Package: IND 2



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			
Resample			?	We recommend an early resample to monitor this condition.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			

# HISTORICAL DIAGNOSIS



# 08 Feb 2023 Diag: Kevin Marson

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view report

# 03 Aug 2022 Diag: Kevin Marson

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### 14 Feb 2022 Diag: Kevin Marson



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





# **OIL ANALYSIS REPORT**

### Area WQR Machine Id CATHHPU8 (S/N UJ918A-8) Component

Hydraulic System Fluid ESSO NUTO H ISO 46 (160 LTR)

# DIAGNOSIS

# Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

# Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

# **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0779200	WC0779192	WC0548075
Sample Date		Client Info		22 Aug 2023	08 Feb 2023	03 Aug 2022
Machine Age	hrs	Client Info		130445	125878	121701
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	4
Copper	ppm	ASTM D5185(m)	>20	3	3	3
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0	0	0
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5	<1	0	<1
Calcium	ppm	ASTM D5185(m)	50	94	97	95
Phosphorus	ppm	ASTM D5185(m)	330	706	706	649
Zinc	ppm	ASTM D5185(m)	410	877	878	883
Sulfur	ppm	ASTM D5185(m)	2700	3942	3993	4033
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>1</b> 7	<b>1</b> 7	<b>1</b> 7
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	163	465	284
Particles >6µm		ASTM D7647	>1300	50	116	72
Particles >14µm		ASTM D7647	>160	6	15	10
Particles >21µm		ASTM D7647	>40	1	4	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	16/14/11	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	historv1	historv2

Acid Number (AN)

mg KOH/g ASTM D974\* 0.45

45 **0.84** 0.80 0.95 Contact/Location: Antonino Champ Fernando - ALGMIS

Report Id: ALGMIS [WCAMIS] 02579119 (Generated: 08/30/2023 10:32:38) Rev: 1



Acid Number

1.20

# **OIL ANALYSIS REPORT**

method







limit/base

current

history1

history2

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