

PROBLEM SUMMARY

Sample Rating Trend

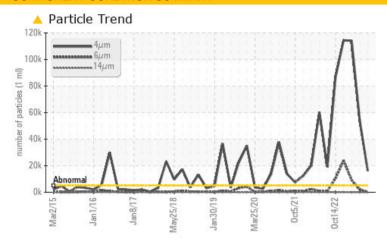
ISO

Hydraulic System in Plant [412381361] Hock Cutter #5 - Maximo #6144 (S/N 1000029280)

Hydraulic System

KEYSTONE NEVASTANE AW ISO 46 (10 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TES	T RESULTS				
Sample Status			ABNORMAL	SEVERE	SEVERE
Particles >4µm	ASTM D7647	>5000	16163	54419	114159
Oil Cleanliness	ISO 4406 (c)	>19/17/14	2 1/15/10	23/18/12	2 4/20/13

Customer Id: CARGUE Sample No.: WC0852628 Lab Number: 02591398 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 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

17 May 2023 Diag: Wes Davis





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 you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



23 Mar 2023 Diag: Wes Davis





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 you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >6µm are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report

29 Dec 2022 Diag: Wes Davis



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 you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. 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

Sample Rating Trend



Hydraulic System in Plant [4 Hock Cutter #5 - Maximo #6144 (S

Hydraulic System

KEYSTONE NEVASTANE AW ISO 46 (10 GAL

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

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

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.

[41238136 (S/N 1000029	_	√2015 Jan20	16 Jan2017 May2018	Jan2019 Mar2020 Oct2021	0000000	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0852628	WC0818570	WC0782556
Sample Date		Client Info		01 Oct 2023	17 May 2023	23 Mar 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	12	12	14
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<1	0	<1
Copper	ppm	ASTM D5185(m)	>20	3	4	6
Tin	ppm	ASTM D5185(m)	>20	0	0	0

		1 /				
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		<1	<1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		0	<1	0
Phosphorus	ppm	ASTM D5185(m)		217	207	209
Zinc	ppm	ASTM D5185(m)		78	77	75
Sulfur	ppm	ASTM D5185(m)		727	812	1175
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2	2	1
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	nnm	ASTM D5185(m)	>20	-1	~1	0

Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	16163	54419	114159
Particles >6µm		ASTM D7647	>1300	302	<u>^</u> 2075	△ 9270
Particles >14μm		ASTM D7647	>160	10	22	57
Particles >21μm		ASTM D7647	>40	3	6	8
Particles >38μm		ASTM D7647	>10	1	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/15/10	23/18/12	2 4/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

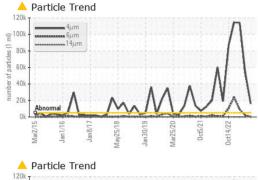
mg KOH/g ASTM D974*

0.26 0.28

Contact/Location: Jakub Posluszny - CARGUE



OIL ANALYSIS REPORT



VIOUAL		memou	IIIIII/Dase	Current	HISTOLY	HISTOLYZ
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
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	IFS	method	limit/hase	current	history1	history2

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80k -	mananan 17jil		accide.				-11
60k -							1/1
101							N ·
40k -						A .	I M
20k -			1	. /\	Λ		IA.
20k -	normal 1	Jan8/17	May25/18	V 1	Mar25/20	\vee	Oct14/22

Visc @ 40°C cSt ASTM D7279(m) 46 44.6 44.5 44.7

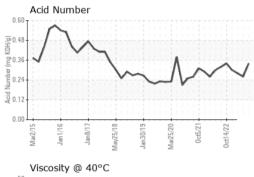
method

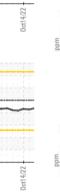
Color

Bottom

SAMPLE IMAGES







GRA	APHS	:							
	ous A		8					▲ Particle Count	
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	-ferro	ous M	30-550					890	-11
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7	~	~					1	8-	10
Mar2/15	Jan1/16	Jan8/17	May25/18	Jan30/19	Mar25/20	Oct5/21	Oct14/22	2-	-8
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	osity	@ 40)°C					Acid Number	Πμ
Abnor	rmal							80.00	
Base			1111					E _{0.36}	
Base	mal	-	~	\sim	_^			0.60 V V V V V V V V V V V V V V V V V V V	-
V								₹ 0.12	
Mar2/15	Jan1/16 -	Jan8/17 -	May25/18 -	Jan30/19 -	Mar25/20 -	0ct5/21-	0ct14/22 +	Ac Mar2715 T Jan8777 - Jan8777 - Jan8777 - Jan30719 - Oct5/21 - Oct5/21 - Oct14/22 - Oct	



50 48

> CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5668477

: WC0852628 : 02591398

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received : 24 Oct 2023 Diagnosed

: 25 Oct 2023 Diagnostician : Wes Davis

Test Package : IND 2 (Additional Tests: TAN Man) 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.

Cargill Meat Solutions 165 Dunlop Drive

Guelph, ON CA N1L 1P4 Contact: Jakub Posluszny jakub_posluszny@cargill.com

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