

PROBLEM SUMMARY

Sample Rating Trend

p2016 Nov2017 Oct2018 Seo2019 Max/020 E-sh/021 Las-2022 Se-3022 44-

ISO

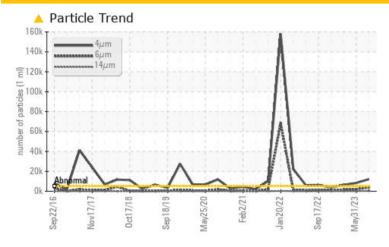


Area [412256481] Machine Id 1000029188

Component **Hydraulic System**

TOTAL FINA NEVASTANE FG AW 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ATTENTION	ATTENTION			
Particles >4µm	ASTM D7647	>5000	<u> </u>	<u>▲</u> 8347	<u></u> 6364			
Particles >6µm	ASTM D7647	>1300	▲ 3702	▲ 1997	<u></u> 1554			
Particles >14μm	ASTM D7647	>160	418	83	97			
Particles >21µm	ASTM D7647	>40	<u> </u>	14	22			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/16	<u>^</u> 20/18/14	<u>^</u> 20/18/14			

Customer Id: CARGUE Sample No.: WC0839710 Lab Number: 02579670 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
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	We recommend an early resample to monitor this condition.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Wes Davis

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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.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.



05 Mar 2023 Diag: Wes Davis



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.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.



05 Dec 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. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



Area [412256481] 1000029188

Component **Hydraulic System**

TOTAL FINA NEVASTANE FG AW 46 (--- GA

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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 moderate amount of particulates (2 to 100 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.

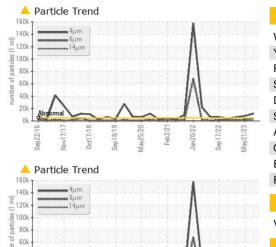
AL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0839710	WC0786022	WC0772679
Sample Date		Client Info		20 Aug 2023	31 May 2023	05 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	<1	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Γitanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
_ead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>20	<1	12	13
Γin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
/anadium	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	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		<1	0	<1
Phosphorus	ppm	ASTM D5185(m)		492	246	215
Zinc	ppm	ASTM D5185(m)		4	13	16
Sulfur	ppm	ASTM D5185(m)		444	614	604
_ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4	4	3
Sodium	ppm	ASTM D5185(m)		0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 8347	△ 6364
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 1997	<u>▲</u> 1554
Particles >14µm		ASTM D7647	>160	<u>418</u>	83	97
Particles >21µm		ASTM D7647	>40	<u> </u>	14	22
Particles >38µm		ASTM D7647	>10	6	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/16	<u>20/18/14</u>	<u>^</u> 20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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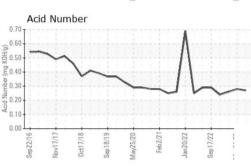
OIL ANALYSIS REPORT



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	VLITE	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
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FLUID PROPERT	IE5	method	limit/base	current	history1	history2

FLUID FROFER	TIES	memod	IIIIII/Dase	Current	HISTORY	HISTORY
Visc @ 40°C	cSt	ASTM D7279(m)	46	47.5	45.8	46.2

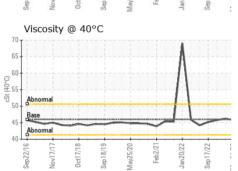
history2 **SAMPLE IMAGES** method limit/base current history1

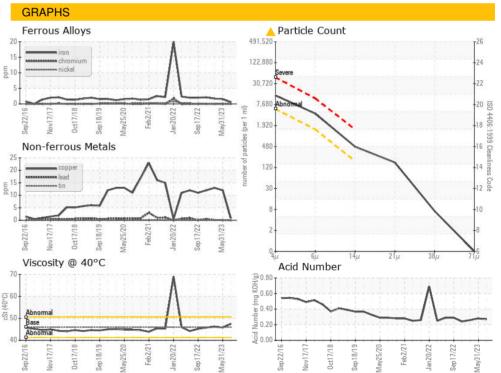




Color









CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0839710 : 02579670

: 5632730 Test Package : IND 2

Received : 31 Aug 2023 Diagnosed

: 01 Sep 2023 : Kevin Marson Diagnostician

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.

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

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