

OIL ANALYSIS REPORT

Machine Id 1000447080/ 2318-245 AMR Presizer

Hydraulic System

TOTAL FINA NEVASTANE FG AW 46 (700 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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 advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0835761	WC0658847	WC0878447
Sample Date		Client Info		09 Mar 2024	30 Dec 2023	11 Nov 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	1	2
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)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	0	0	3
Copper	ppm	ASTM D5185(m)	>20	3	4	A 81
Tin	ppm	ASTM D5185(m)	>20	0	0	1
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	history1 0	history2 <1
ADDITIVES Boron Barium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	limit/base	<1 0	history1 0 0	<1 <1
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	<1 0 0	0 0 0 0	<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	<1 <1 0 0 0	history1 0 0 0 0	<1 <1 0 0
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	<1 0 0 0 <1 <1	history1 0 0 0 0 <1	+istory2 <1 <1 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	<1 0 0 0 <1 <1 <1	history1 0 0 0 <1 <1	history2 <1 <1 0 0 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	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)	limit/base	<1 0 0 0 <1 <1 430	history1 0 0 0 0 <1 <1 443	history2 <1 <1 0 0 0 <1 155
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	<1 0 0 0 <1 <1 430 6	history1 0 0 0 <1 <1 443 5	history2 <1 <1 0 0 0 <1 155 131
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)	limit/base	<1 0 0 0 <1 <1 430 6 672	history1 0 0 0 0 <1 <1 443 5 722	history2 <1 <1 0 0 0 <1 155 131 2900
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	<pre>current <1 0 0 0 <1 <1 430 6 672 <1 </pre>	history1 0 0 0 -1 -1 443 5 722 -1	history2 <1 <1 0 0 0 <1 155 131 2900 <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) ASTM D5185(m)	limit/base	 <1 0 0 <1 <1 430 6 672 <1 current 	history1 0 0 0 <1 <1 443 5 722 <1 history1	history2 <1 <1 0 0 0 <1 155 131 2900 <1 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	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) ASTM D5185(m)	limit/base limit/base >15	 current <1 0 0 <1 <1 430 6 672 <1 current 2 	history1 0 0 0 <1 <1 443 5 722 <1 history1 2	history2 <1 <1 0 0 0 <1 155 131 2900 <1 history2 2
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	 current <1 0 0 <1 <1 <1 430 6 672 <1 current 2 4 	history1 0 0 0 <1 <1 443 5 722 <1 history1 2 2	history2 <1 <1 0 0 0 <1 155 131 2900 <1 history2 2 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185(m) ASTM D5185(m)	limit/base	current <1 0 0 0 <1 <1 430 6 672 <1 current 2 4 4	history1 0 0 0 <1 <1 443 5 722 <1 history1 2 2 2	history2 <1 <1 0 0 0 <1 155 131 2900 <1 history2 2 4 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base limit/base >15 >20 >0.05	 <1 0 0 <1 <1 430 6 672 <1 current 2 4 4 0.070 	history1 0 0 0 0 <1 <1 443 5 722 <1 history1 2 2 2 2 0.214	history2 <1 <1 0 0 0 <1 155 131 2900 <1 history2 2 4 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base limit/base >15 >20 >0.05 >500	<1 0 0 0 0 <1 <10 <1 <10 <1 <10 <10 <10 <10 <2 4 <2 4 <0.070 <704	history1 0 0 0 -1 -1 -443 5 722 -1 history1 2 2 2 2 2 -2 -2 -2 -2 -2 -2	<1 <1 0 155 131 2900 <1 history2 2 4 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D6304* ASTM D6304*	limit/base 	<1 0 0 0 <1 <10 <71 <10 <10 <11 <12 <130 6 672 <1 current 2 4 4 0.070 704	history1 0 0 0 -1 -1 -443 5 722 -1 history1 2 2 2 2 2 0.214 ▲ 2147 history1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5304* ASTM D6304*	limit/base >15 >20 >0.05 >500 limit/base >5000	 current <1 0 0 <1 <1 430 6 672 <1 current 2 4 4 0.070 704 current 	history1 0 0 0 -1 -1 -443 5 722 -1 history1 2 2 2 2 2 0.214 ▲ 2147 history1 0.5163	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D6304* ASTM D6304*	limit/base 	<1 0 0 0 0 <1 <10 <71 <10 <11 <12 <1 <2 4 0.070 <704 current <7485 1509	history1 0 0 0 -1 <1 443 5 722 <1 history1 2 2 2 2 2 0.214 ▲ 2147 history1 55163 547	<1 <1 0 155 131 2900 <1 history2 2 4 3 history2 4658 604

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

18

1

1

ISO 4406 (c) >19/17/14 **20/18/14**

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

Contact/Location: Jakub Posluszny - CARGUE Page 1 of 2

20/16/12

6

1

0

6

1

0

19/16/12



OIL ANALYSIS REPORT

Severe							
,000 + q	1						
1000							
000-							
2000 -						1	
Abnom	nal					1	1
	21	52	22	22	3		4
Aug12/	Nov28/	Feb27/2	Jun17/2	Dec4/2	Mar26/2	Nov11/2	Mar9/2
🛑 Parti	cle Tr	end					
60k	4μm 6μm	1					
COL		m	1				
JUKT							







Color

Bottom



GRAPHS Ferrous Alloys Particle Count Acid Number 491,5 0.4 0.35 122,88 (B/HOX BW) 30.72 -20 0.20 Mar9/24 . Aug12/21 EC/SCIE 4406 ₫ 0.15 per 1 1,92 18 ·명 0.10 0.05 Non-ferrous Metals 480 100 0.00 120 14 Jov11/23 lec4/22 Aug12/2 C/17044 1=12617 30 12 8 Viscosity @ 40°C un17/22 Aug12/21 CC/7Cda CC/Prol COBCIEL :0/11/2: Aar9/7/ 52 5 28/ 21 4 Viscosity @ 40°C Acid Number KOH/g) ()-41 ()-41 ()-44)()-44 ()-44) 55 0.4 Abnorma () 50 0€ 45 Base 47 충 ₄₀. Ab Abnorma 40 35 Acid Aug12/21. Jun17/22 Dec4/22 Dec4/22 Vov11/23 Mar9/24 Feb27/22 Mar26/23 ov/28/21 eb27/22 Aar76/73 Vov11/23 101/28/7 Aug 12/2 lun17/22 Mar9/24 v11/23 CC/11/011 lec4/22 0/11/0 CILCHA: Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Cargill Meat Solutions** CALA Sample No. : WC0835761 Received : 14 Mar 2024 165 Dunlop Drive Lab Number : 02621999 Tested : 15 Mar 2024 Guelph, ON ISO 17025:2017 Accredited : 15 Mar 2024 - Kevin Marson CA N1L 1P4 Unique Number : 5747118 Diagnosed Laboratory Test Package : IND 2 (Additional Tests: KF, TAN Man) Contact: Jakub Posluszny To discuss this sample report, contact Customer Service at 1-800-268-2131. jakub_posluszny@cargill.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)823-5200 Validity of results and interpretation are based on the sample and information as supplied. F: (519)823-5893

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Contact/Location: Jakub Posluszny - CARGUE