



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ATTENTION</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**AMR-Cheyenne**  
Machine Id  
**471151 SENNEBOGEN 840E 840.0.2180**  
Component  
**Hydraulic System**  
Fluid  
**CHEVRON HYDRAULIC OIL AW ISO 46 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0023969</b>	DJJ0012177	DJJ0015307
Sample Date		Client Info		<b>11 Jul 2024</b>	05 Dec 2023	31 May 2023
Machine Age	hrs	Client Info		<b>10640</b>	9891	3116
Oil Age	hrs	Client Info		<b>1500</b>	1000	500
Filter Age	hrs	Client Info		<b>1500</b>	1000	500
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

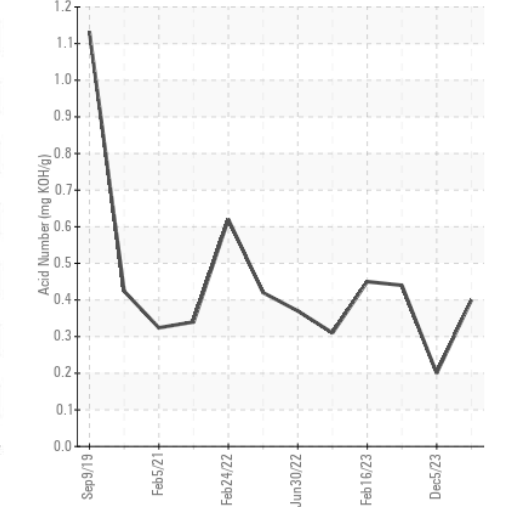
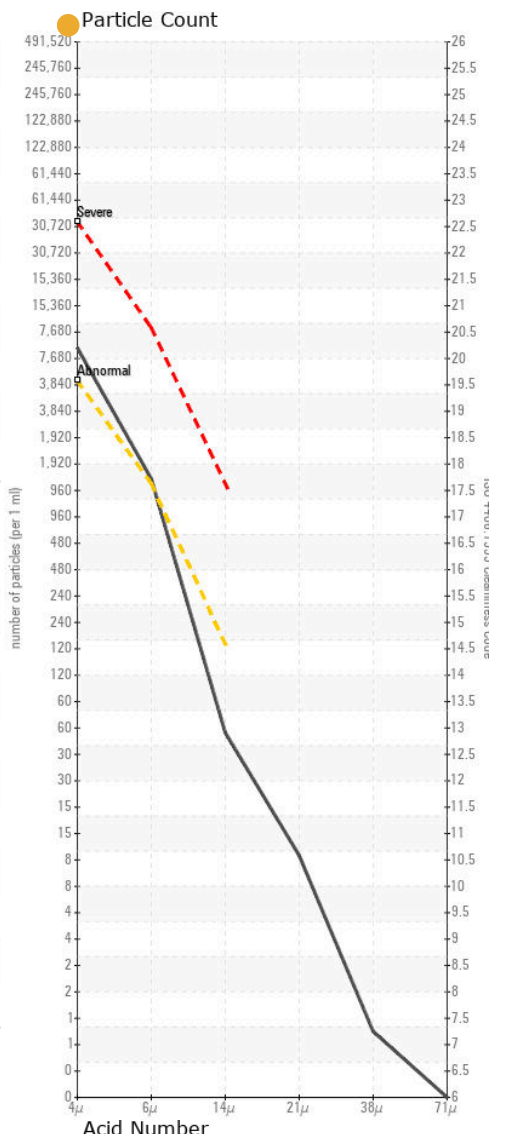
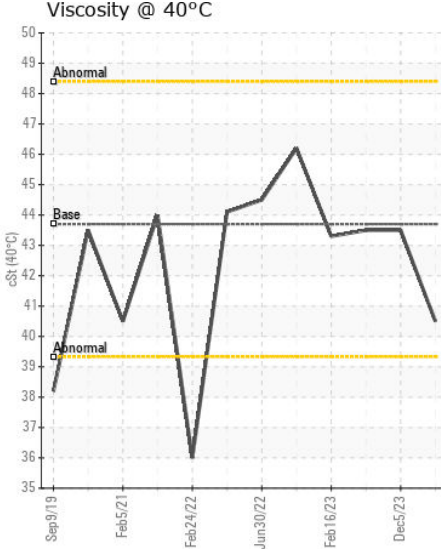
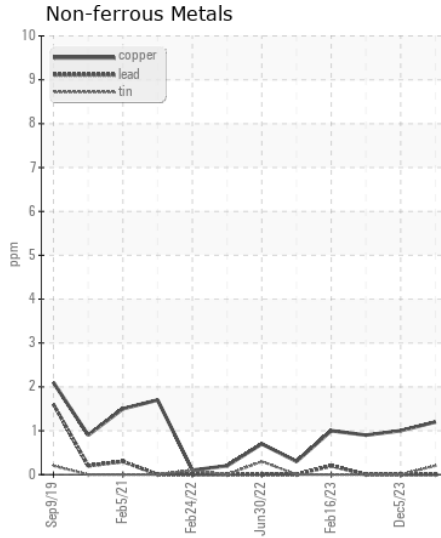
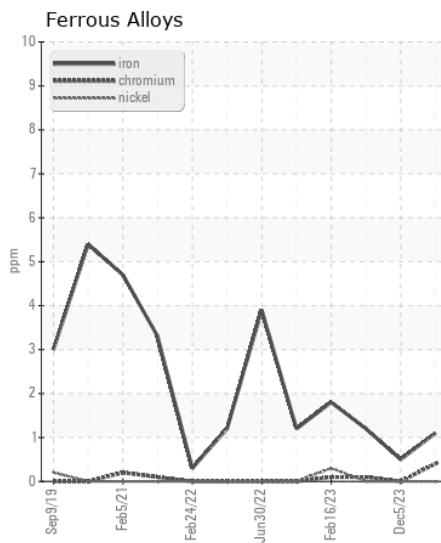
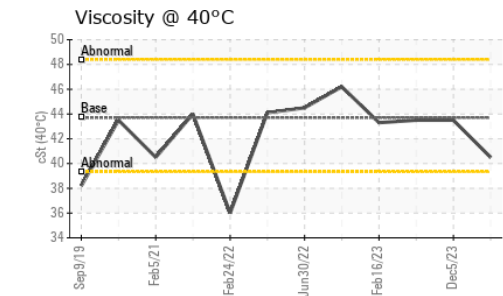
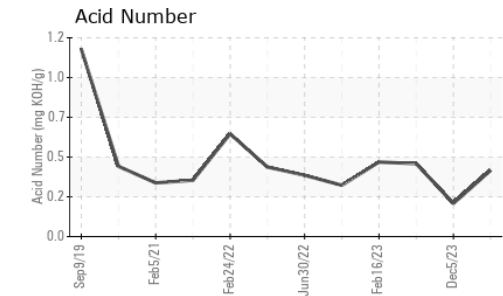
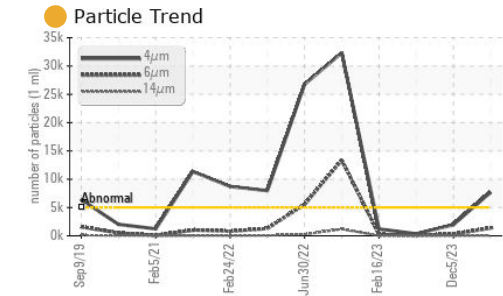
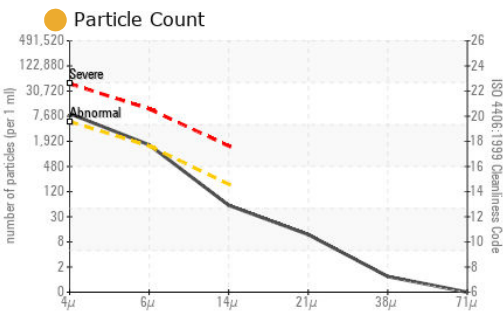
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>7698</b>	1965	357
Particles >6µm		ASTM D7647	>1300	<b>1384</b>	293	115
Particles >14µm		ASTM D7647	>160	<b>50</b>	14	12
Particles >21µm		ASTM D7647	>40	<b>10</b>	5	3
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/13</b>	18/15/11	16/14/11
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	0
Calcium	ppm	ASTM D5185m		<b>91</b>	90	52
Phosphorus	ppm	ASTM D5185m		<b>315</b>	349	367
Zinc	ppm	ASTM D5185m		<b>432</b>	438	459
Sulfur	ppm	ASTM D5185m		<b>858</b>	866	1077
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.40</b>	0.20	0.44
Visc @ 40°C	cSt	ASTM D445	43.7	<b>40.5</b>	43.5	43.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0023969 **Received** : 18 Jul 2024  
**Lab Number** : 06240254 **Tested** : 19 Jul 2024  
**Unique Number** : 11129088 **Diagnosed** : 19 Jul 2024 - Wes Davis  
**Test Package** : CONST

**ADVANTAGE METALS RECYCLING - CHEYENNE**  
 1015 S. PACKARD ST  
 KANSAS CITY, KS  
 US 66105  
 Contact: BRIAN JACOBS  
 BRIAN.JACOBS@ADVANTAGERECYCLING.COM  
 T: (816)808-4711  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)