OIL ANALYSIS REPORT

Sample Rating Trend

Jan2024

NORMAL
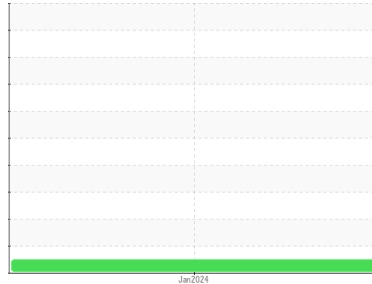
Area
Inland Iron and Metal - 888041
Machine Id
AG231-RR
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

**Wear**
Copper and iron ppm levels are noted.

Contamination
{not applicable}

Fluid Condition
{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Department	Client Info		**Sales**	---	---
Sample From	Client Info		**Machine**	---	---
Production Stage	Client Info		**Lab Reclaim**	---	---
Sent to WC	Client Info		**01/16/2024**	---	---
Sample Number	Client Info		**E30001158**	---	---
Sample Date	Client Info		**16 Jan 2024**	---	---
Machine Age	hrs	Client Info	**0**	---	---
Oil Age	hrs	Client Info	**0**	---	---
Oil Changed		Client Info	**N/A**	---	---
Sample Status			**NORMAL**	---	---

WEAR METALS

	method		limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**10**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**1**	---	---
Lead	ppm	ASTM D5185(m)	>20	**9**	---	---
Copper	ppm	ASTM D5185(m)	>20	**12**	---	---
Tin	ppm	ASTM D5185(m)	>20	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES

	method		limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	**<1**	---	---
Barium	ppm	ASTM D5185(m)	5	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	5	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)	25	**2**	---	---
Calcium	ppm	ASTM D5185(m)	200	**15**	---	---
Phosphorus	ppm	ASTM D5185(m)	300	**330**	---	---
Zinc	ppm	ASTM D5185(m)	370	**300**	---	---
Sulfur	ppm	ASTM D5185(m)	2500	**1539**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS

	method		limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**6**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**2**	---	---
Water	%	ASTM D6304*	>0.05	**0.001**	---	---
ppm Water	ppm	ASTM D6304*	>500	**12**	---	---

OIL ANALYSIS REPORT

Particle Count

Acid Number

Water (KF)

Viscosity @ 100°C

Viscosity @ 40°C
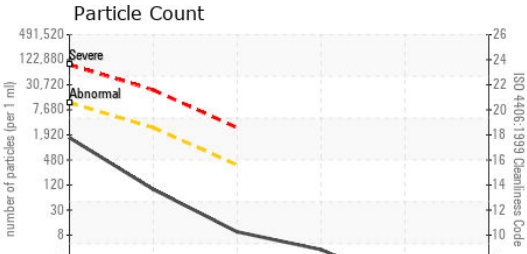
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	1443	---	---
Particles >6µm	ASTM D7647	>2500	83	---	---
Particles >14µm	ASTM D7647	>320	8	---	---
Particles >21µm	ASTM D7647	>80	3	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	18/14/10	---	---
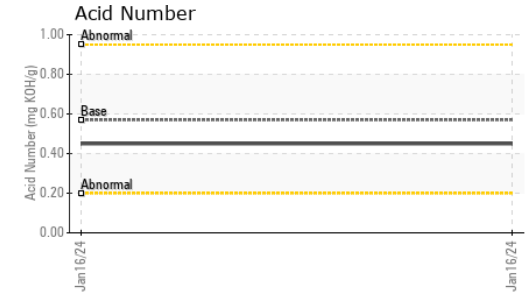
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.57	0.45	---	---
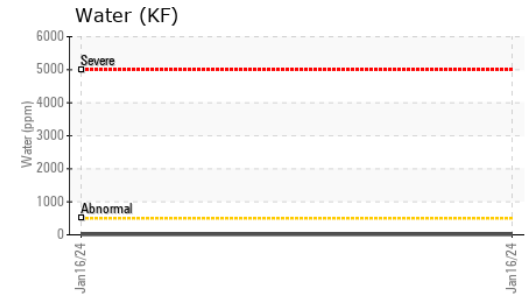
VISUAL	method		limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---
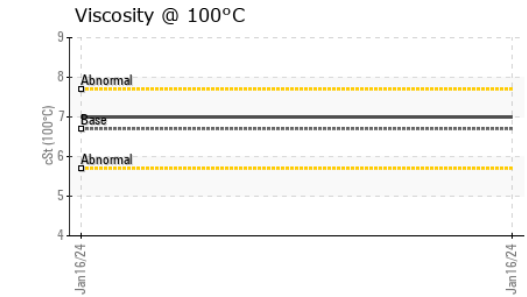
FLUID PROPERTIES	method		limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	46.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	109	---	---
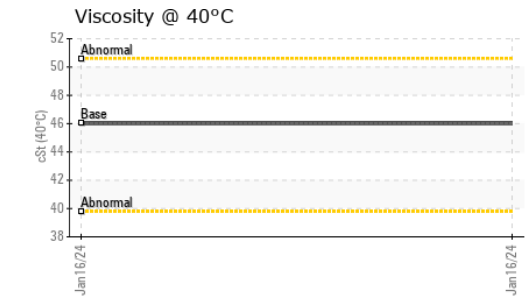
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image