OIL ANALYSIS REPORT

Sample Rating Trend

Nov 2023

NORMAL
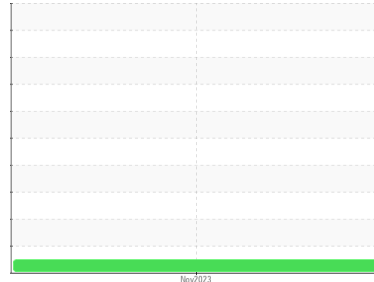
Area
IPEX - 888063
Machine Id
AM952
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

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

Wear
{not applicable}

Contamination
The sample submitted is 2 times dirtier than the recommended ISO particle count target of 19/16/14.

**Fluid Condition**
{not applicable}

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Batch #	Client Info		**AM952**	---	---
Machine ID	Client Info		**Sales**	---	---
Department	Client Info		**Machine**	---	---
Sample From	Client Info		**Initial**	---	---
Production Stage	Client Info		**12/06/2023**	---	---
Sample Number	Client Info		**E30000891**	---	---
Sample Date	Client Info		**29 Nov 2023**	---	---
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	**<1**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**0**	---	---
Lead	ppm	ASTM D5185(m)	>20	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>20	**<1**	---	---
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	**3**	---	---
Barium	ppm	ASTM D5185(m)	5	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	5	**<1**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)	25	**7**	---	---
Calcium	ppm	ASTM D5185(m)	200	**74**	---	---
Phosphorus	ppm	ASTM D5185(m)	300	**321**	---	---
Zinc	ppm	ASTM D5185(m)	370	**421**	---	---
Sulfur	ppm	ASTM D5185(m)	2500	**782**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**0**	---	---
Sodium	ppm	ASTM D5185(m)		**0**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**0**	---	---
Water	%	ASTM D6304*	>0.05	**0.002**	---	---
ppm Water	ppm	ASTM D6304*	>500	**17**	---	---

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Particle Count

Acid Number

Water (KF)

Viscosity @ 100°C

Viscosity @ 40°C
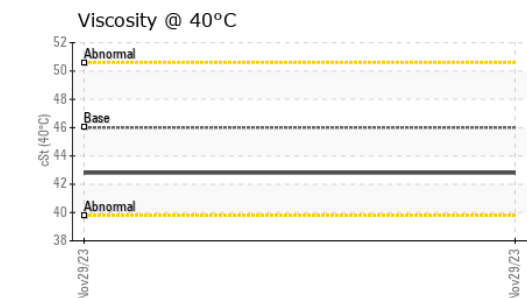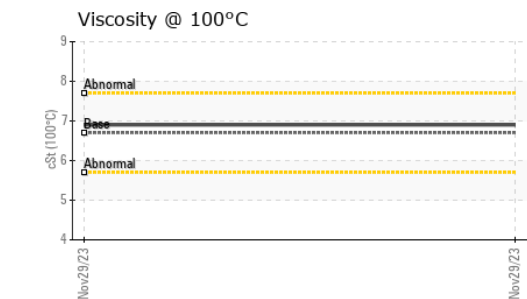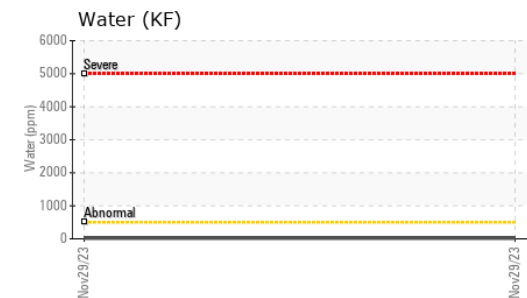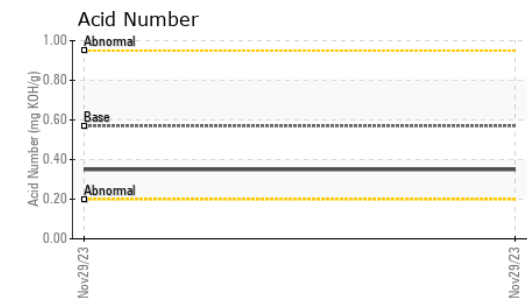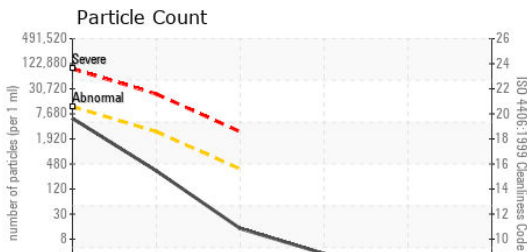
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4μm	ASTM D7647	>10000	5216	---	---
Particles >6μm	ASTM D7647	>2500	290	---	---
Particles >14μm	ASTM D7647	>320	12	---	---
Particles >21μm	ASTM D7647	>80	3	---	---
Particles >38μm	ASTM D7647	>20	1	---	---
Particles >71μm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	20/15/11	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.57	0.35	---	---

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	42.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	118	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image