



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
16222 (S/N 52691)

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0033936	---	---
Sample Date	Client Info		08 Aug 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 D5185m >20	0	---	---
Chromium	ppm	ASTM D5185m >20	0	---	---
Nickel	ppm	ASTM D5185m >20	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >20	<1	---	---
Lead	ppm	ASTM D5185m >20	0	---	---
Copper	ppm	ASTM D5185m >20	<1	---	---
Tin	ppm	ASTM D5185m >20	0	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	6	---	---
Barium	ppm	ASTM D5185m 5	0	---	---
Molybdenum	ppm	ASTM D5185m 5	3	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m 25	12	---	---
Calcium	ppm	ASTM D5185m 200	74	---	---
Phosphorus	ppm	ASTM D5185m 300	331	---	---
Zinc	ppm	ASTM D5185m 370	406	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	5	---	---
Sodium	ppm	ASTM D5185m	0	---	---
Potassium	ppm	ASTM D5185m >20	<1	---	---
Water	%	ASTM D6304 >0.05	0.001	---	---
ppm Water	ppm	ASTM D6304 >500	12.4	---	---

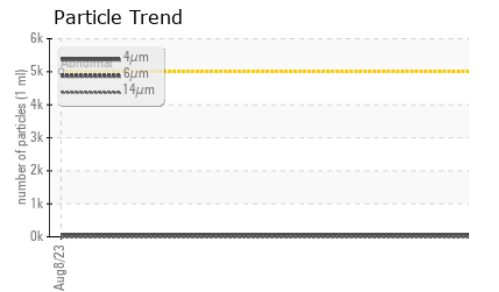
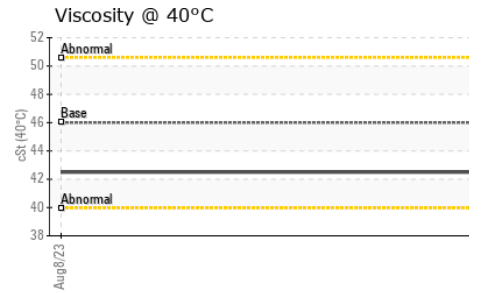
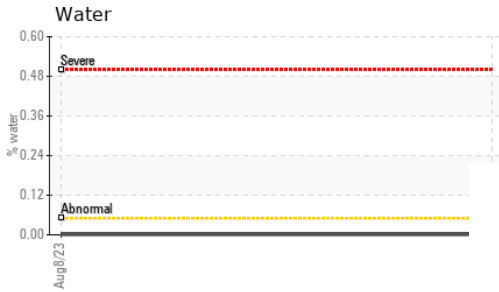
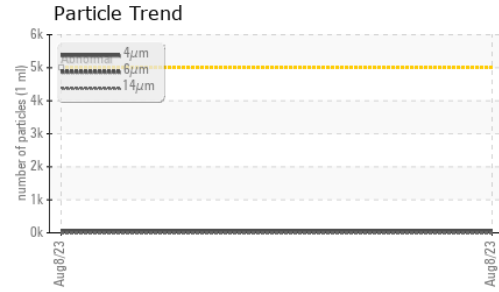
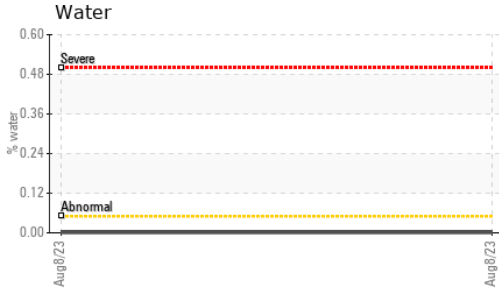
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	43	---	---
Particles >6µm	ASTM D7647	>1300	13	---	---
Particles >14µm	ASTM D7647	>160	3	---	---
Particles >21µm	ASTM D7647	>40	1	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	13/11/9	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.34	---	---

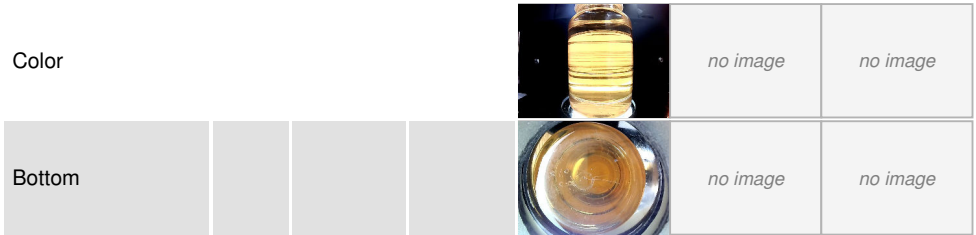
OIL ANALYSIS REPORT



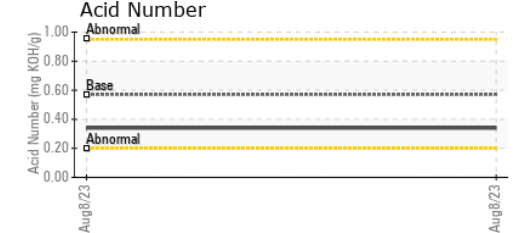
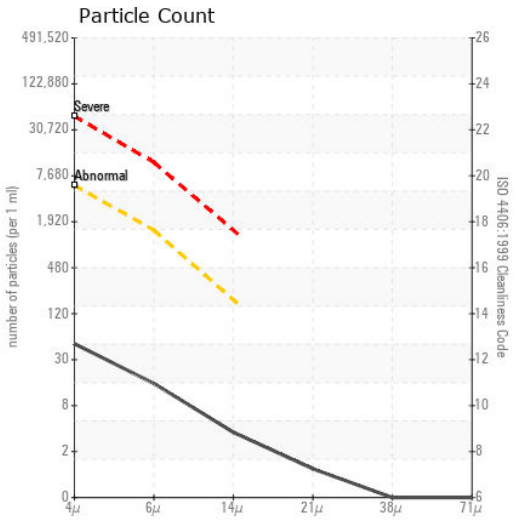
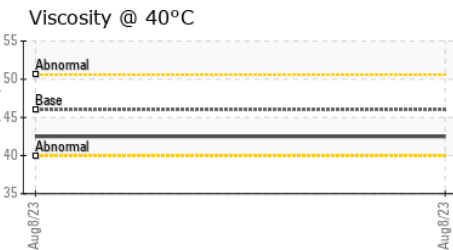
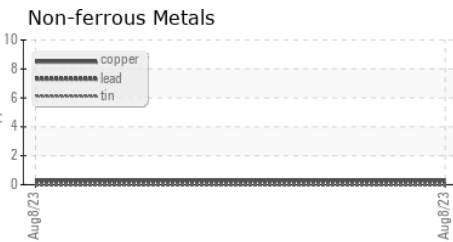
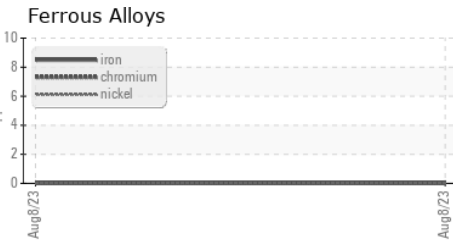
PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal	White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	Silt	scalar	*Visual NONE	NONE	---	---
Debris	Debris	scalar	*Visual NONE	NONE	---	---
Sand/Dirt	Sand/Dirt	scalar	*Visual NONE	NONE	---	---
Appearance	Appearance	scalar	*Visual NORML	NORML	---	---
Odor	Odor	scalar	*Visual NORML	NORML	---	---
Emulsified Water	Emulsified Water	scalar	*Visual >0.05	NEG	---	---
Free Water	Free Water	scalar	*Visual	NEG	---	---

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 40°C	cSt	ASTM D445 46	42.5	---	---

PARAMETER	method	limit/base	current	history1	history2
SAMPLE IMAGES					



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0033936 **Received** : 23 Aug 2023
Lab Number : 05932781 **Diagnosed** : 24 Aug 2023
Unique Number : 10618052 **Diagnostician** : Wes Davis
Test Package : IND 2

YANFENG - CHATTANOOGA
 7463 BONNYSHIRE DR
 CHATTANOOGA, TN
 US 37416
 Contact: TIMOTHY MORRIS
 timothy.morris@yanfeng.com

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)

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