OIL ANALYSIS REPORT

E360S ENVIRONMENTAL 360 SOLUTIONS
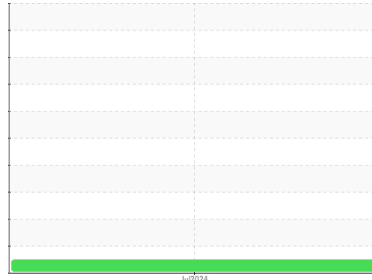
Sample Rating Trend

Jul2024

NORMAL

Area
Wegu Can - W00800
Machine Id
A2407034
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation
We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

Wear
Copper ppm levels are noted.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Batch #		Client Info	**2024 06 0620**	---	---
Department		Client Info	**Production**	---	---
Sample From		Client Info	**Machine**	---	---
Production Stage		Client Info	**Final**	---	---
Sent to WC		Client Info	**07/08/2024**	---	---
Sample Number		Client Info	**E30002590**	---	---
Sample Date		Client Info	**08 Jul 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	**20**	---	---
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	**2**	---	---
Lead	ppm	ASTM D5185(m)	>20	**9**	---	---
Copper	ppm	ASTM D5185(m)	>20	**24**	---	---
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	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	5	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**6**	---	---
Magnesium	ppm	ASTM D5185(m)	25	**83**	---	---
Calcium	ppm	ASTM D5185(m)	200	**99**	---	---
Phosphorus	ppm	ASTM D5185(m)	300	**733**	---	---
Zinc	ppm	ASTM D5185(m)	370	**764**	---	---
Sulfur	ppm	ASTM D5185(m)	2500	**2985**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**9**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.05	**0.003**	---	---
ppm Water	ppm	ASTM D6304*	>500	**30**	---	---

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Particle Count

Acid Number

Water (KF)

Viscosity @ 100°C

Viscosity @ 40°C
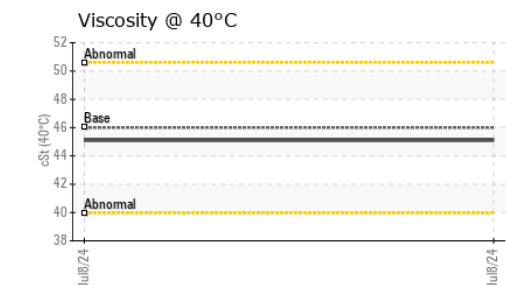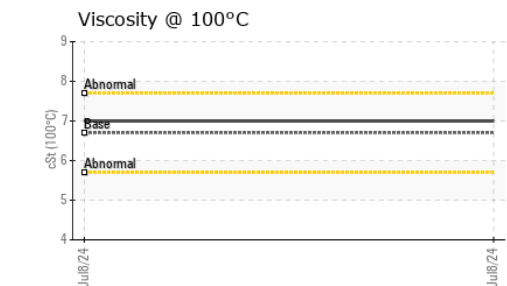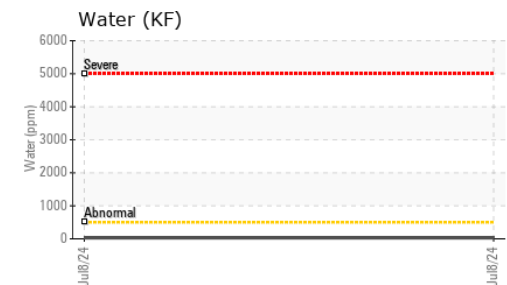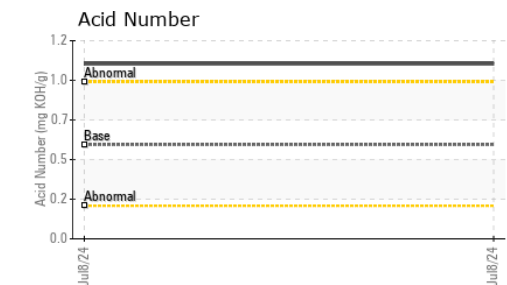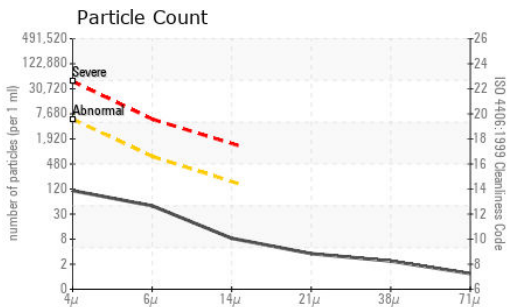
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	97	---	---
Particles >6µm	ASTM D7647	>640	42	---	---
Particles >14µm	ASTM D7647	>160	7	---	---
Particles >21µm	ASTM D7647	>40	3	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	14/13/10	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.57	1.06	---	---

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	45.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	7.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	112	---	---

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