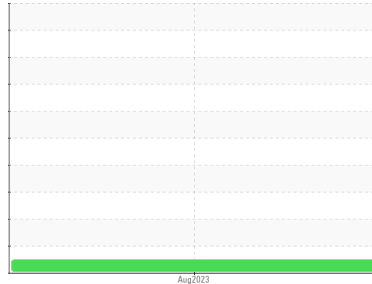




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Signature Aluminum - A02500
 Machine Id
A2308033
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your 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	E3000094	---	---
Sample Date	Client Info	09 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 D5185(m)	>20	16	---	---
Chromium ppm ASTM D5185(m)	>10	<1	---	---
Nickel ppm ASTM D5185(m)	>10	2	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>10	2	---	---
Lead ppm ASTM D5185(m)	>20	8	---	---
Copper ppm ASTM D5185(m)	>20	34	---	---
Tin ppm ASTM D5185(m)	>10	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	2	---	---
Molybdenum ppm ASTM D5185(m)	5	<1	---	---
Manganese ppm ASTM D5185(m)		1	---	---
Magnesium ppm ASTM D5185(m)	25	13	---	---
Calcium ppm ASTM D5185(m)	200	29	---	---
Phosphorus ppm ASTM D5185(m)	300	439	---	---
Zinc ppm ASTM D5185(m)	370	369	---	---
Sulfur ppm ASTM D5185(m)	2500	1561	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

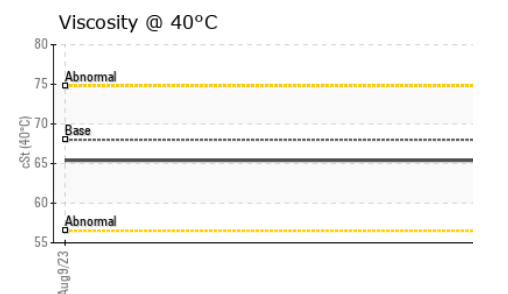
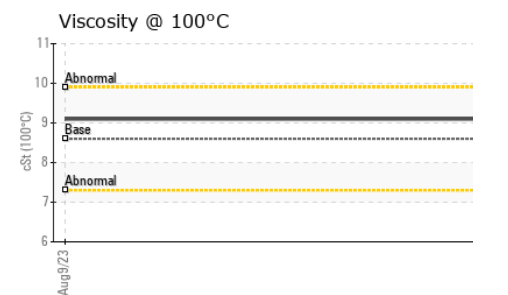
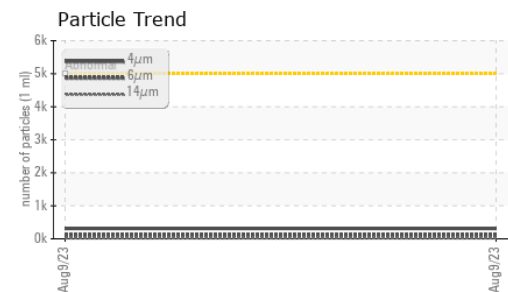
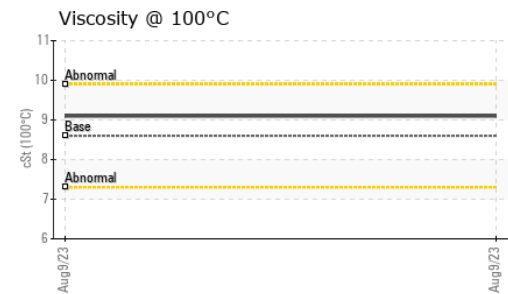
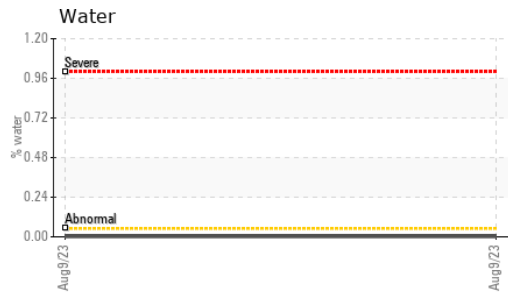
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	2	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---
Water % ASTM D6304*	>0.05	0.002	---	---
ppm Water ppm ASTM D6304*	>500	21.7	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	312	---	---
Particles >6µm ASTM D7647	>1300	113	---	---
Particles >14µm ASTM D7647	>160	15	---	---
Particles >21µm ASTM D7647	>40	5	---	---
Particles >38µm ASTM D7647	>10	1	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	15/14/11	---	---

OIL ANALYSIS REPORT



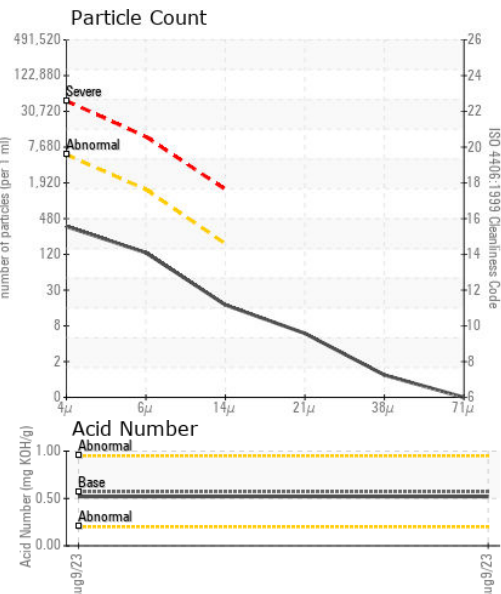
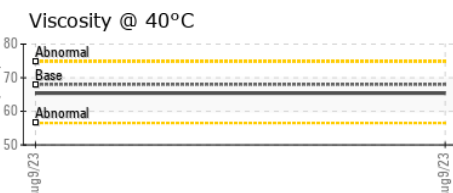
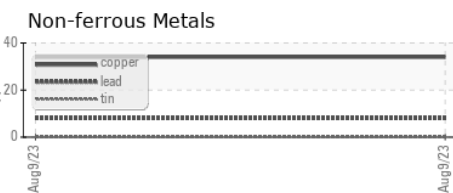
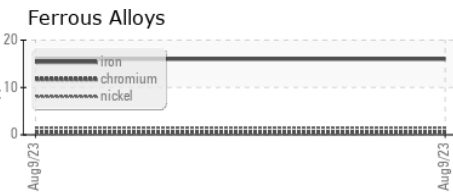
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.52	---	---

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)	68	65.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	9.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	115	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000094 **Received** : 11 Aug 2023
Lab Number : **02575371** **Diagnosed** : 15 Aug 2023
Unique Number : 5620422 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI)

Environmental 360 Solutions Ltd.
 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.