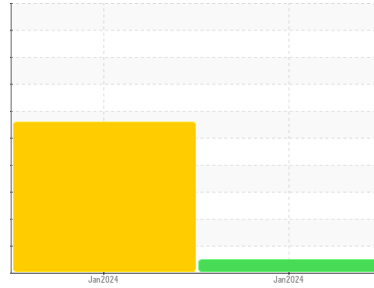




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Mako Plastics - 888067
 Machine Id
AG234
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

Recommendation

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

Wear

{not applicable}

Contamination

{not applicable}

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		---	Tote 2	---
Department	Client Info		Sales	Sales	---
Sample From	Client Info		Machine	Tote	---
Production Stage	Client Info		Lab Reclaim	Initial	---
Sent to WC	Client Info		01/17/2024	01/15/2024	---
Sample Number	Client Info		E30001170	E30001148	---
Sample Date	Client Info		17 Jan 2024	11 Jan 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	3	5	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >20	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	<1	2	---
Lead	ppm	ASTM D5185(m) >20	1	4	---
Copper	ppm	ASTM D5185(m) >20	8	9	---
Tin	ppm	ASTM D5185(m) >20	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

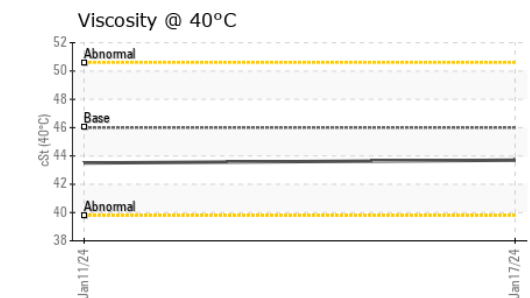
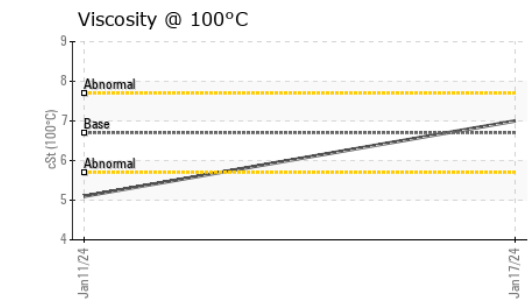
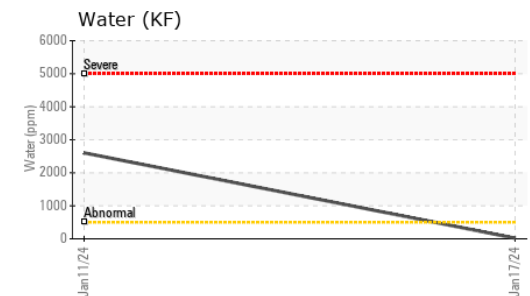
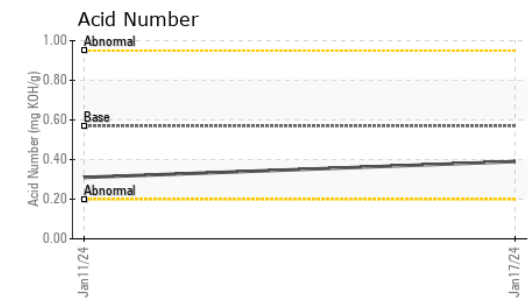
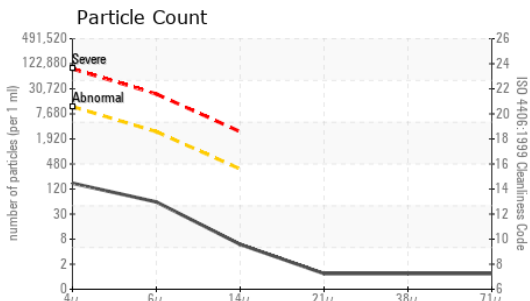
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<1	1	---
Barium	ppm	ASTM D5185(m) 5	0	0	---
Molybdenum	ppm	ASTM D5185(m) 5	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m) 25	2	2	---
Calcium	ppm	ASTM D5185(m) 200	34	43	---
Phosphorus	ppm	ASTM D5185(m) 300	325	331	---
Zinc	ppm	ASTM D5185(m) 370	335	343	---
Sulfur	ppm	ASTM D5185(m) 2500	1038	1061	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	1	9	---
Sodium	ppm	ASTM D5185(m)	<1	1	---
Potassium	ppm	ASTM D5185(m) >20	<1	1	---
Water	%	ASTM D6304* >0.05	0.002	▲ 0.260	---
ppm Water	ppm	ASTM D6304* >500	19	▲ 2603	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001170 **Received** : 19 Jan 2024
Lab Number : **02609964** **Diagnosed** : 23 Jan 2024
Unique Number : 5711050 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, 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 1-905-372-2251.
 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	146	▲ 115417	---
Particles >6µm	ASTM D7647	>2500	52	▲ 18792	---
Particles >14µm	ASTM D7647	>320	5	305	---
Particles >21µm	ASTM D7647	>80	1	66	---
Particles >38µm	ASTM D7647	>20	1	19	---
Particles >71µm	ASTM D7647	>4	1	5	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	14/13/10	▲ 24/21/15	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.57	0.39	0.31	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar Visual*	NONE	NONE	NONE	---
Precipitate	scalar Visual*	NONE	NONE	NONE	---
Silt	scalar Visual*	NONE	NONE	NONE	---
Debris	scalar Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar Visual*	NONE	NONE	NONE	---
Appearance	scalar Visual*	NORML	NORML	▲ WGOIL	---
Odor	scalar Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar Visual*	>0.05	NEG	.5%	---
Free Water	scalar Visual*		NEG	▲ 5%	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	46	43.7	43.5	---
Visc @ 100°C	cSt ASTM D7279(m)	6.7	7	▲ 5.1	---
Viscosity Index (VI)	Scale ASTM D2270*	97	118	---	---

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