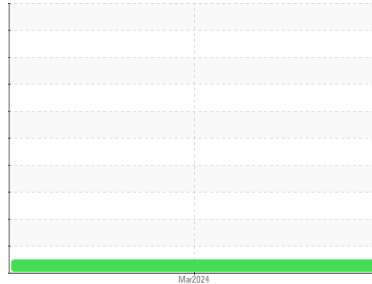




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Chem-Ecol**  
Machine Id  
**A2403038**

Component  
**Cutting Fluid**  
Fluid  
**CHEM-ECOL CUTTING OIL 500H (--- GAL)**

## DIAGNOSIS

### Recommendation

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

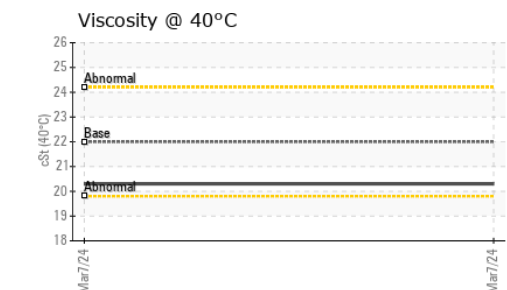
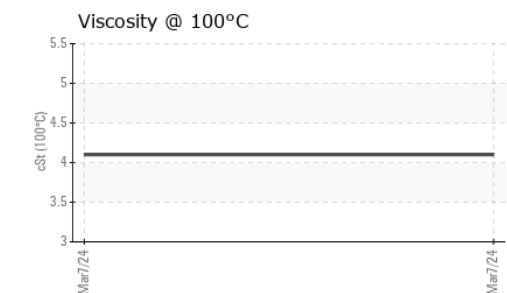
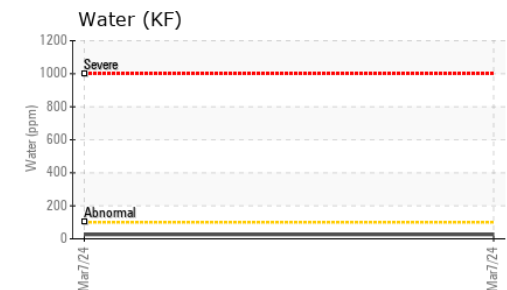
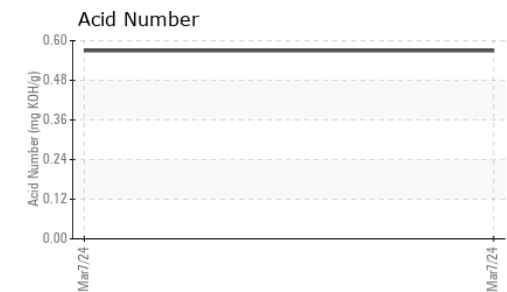
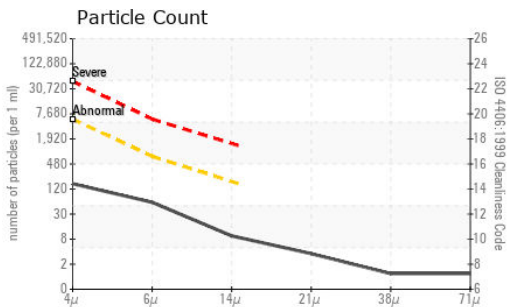
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Batch #	Client Info			<b>3025-A</b>	---	---
Department	Client Info			<b>Production</b>	---	---
Sample From	Client Info			<b>Machine</b>	---	---
Production Stage	Client Info			<b>Final</b>	---	---
Sent to WC	Client Info			<b>03/07/2024</b>	---	---
Sample Number	Client Info			<b>E30001529</b>	---	---
Sample Date	Client Info			<b>07 Mar 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		<b>6</b>	---	---
Chromium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)		<b>5</b>	---	---
Tin	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>51</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>66</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>276</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>288</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>3148</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304*		<b>0.003</b>	---	---
ppm Water	ppm	ASTM D6304*		<b>26</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>142</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>51</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>8</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	<b>14/13/10</b>	---	---

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

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287*	<b>6.97</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	<b>20.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>4.1</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>100</b>	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001529 **Received** : 11 Mar 2024  
**Lab Number** : **02621099** **Tested** : 12 Mar 2024  
**Unique Number** : 5746218 **Diagnosed** : 13 Mar 2024 - Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, 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.