



OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Machine Id
EPIROC ST7 SCP-198 (S/N TMG17URE313)

Component
Rear Right Planetary

Fluid
SHELL SPIRAX HD 85W140 (6 LTR)

DIAGNOSIS

▲ Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Moderate concentration of visible metal present. Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0835122	---	---
Sample Date	Client Info	27 Sep 2023	---	---
Machine Age	hrs Client Info	1535	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >500	125	---	---
Chromium ppm	ASTM D5185(m) >10	0	---	---
Nickel ppm	ASTM D5185(m) >10	<1	---	---
Titanium ppm	ASTM D5185(m)	0	---	---
Silver ppm	ASTM D5185(m)	<1	---	---
Aluminum ppm	ASTM D5185(m) >25	<1	---	---
Lead ppm	ASTM D5185(m) >25	<1	---	---
Copper ppm	ASTM D5185(m) >75	2	---	---
Tin ppm	ASTM D5185(m) >10	0	---	---
Antimony ppm	ASTM D5185(m) >5	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)	221	---	---
Barium ppm	ASTM D5185(m)	<1	---	---
Molybdenum ppm	ASTM D5185(m)	0	---	---
Manganese ppm	ASTM D5185(m)	<1	---	---
Magnesium ppm	ASTM D5185(m)	<1	---	---
Calcium ppm	ASTM D5185(m)	2	---	---
Phosphorus ppm	ASTM D5185(m)	935	---	---
Zinc ppm	ASTM D5185(m)	3	---	---
Sulfur ppm	ASTM D5185(m)	18990	---	---
Lithium ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

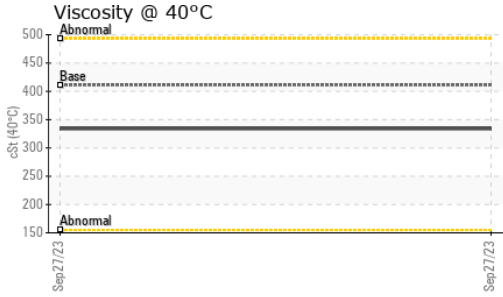
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >75	4	---	---
Sodium ppm	ASTM D5185(m)	<1	---	---
Potassium ppm	ASTM D5185(m) >20	0	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar	Visual* NONE	▲ MODER	---	---
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* >0.2	NEG	---	---
Free Water scalar	Visual*	NEG	---	---



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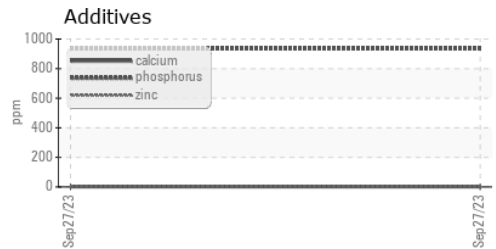
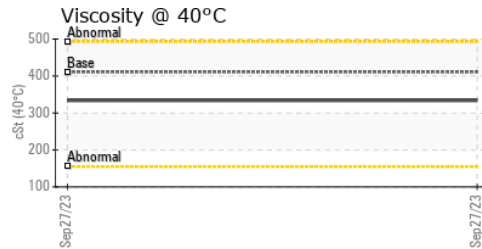
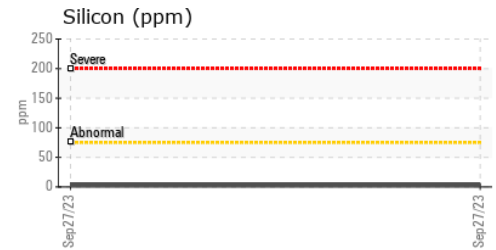
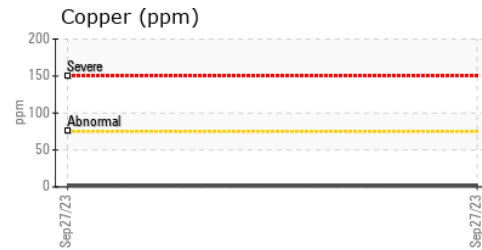
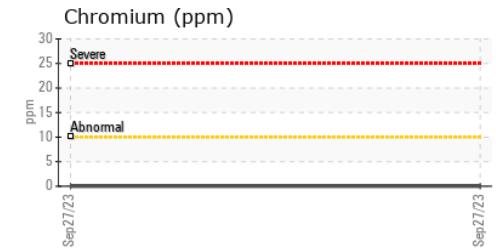
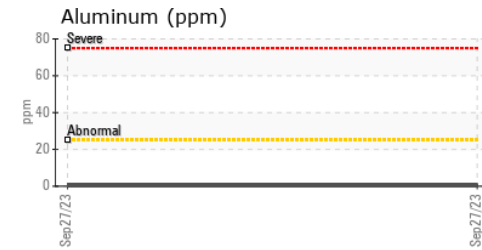
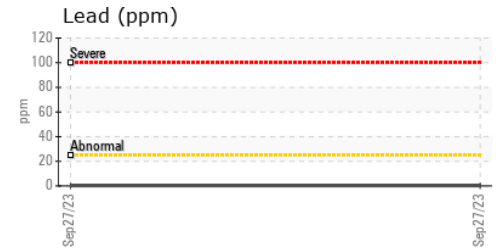
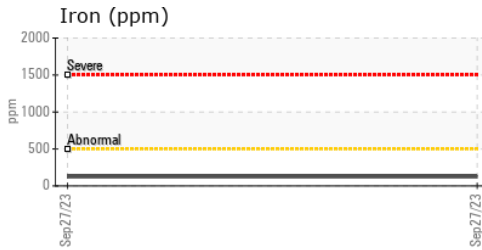


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	411	334	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0835122 **Received** : 12 Oct 2023
Lab Number : 02588726 **Diagnosed** : 16 Oct 2023
Unique Number : 5657792 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch)

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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.