



WEAR	<b>ATTENTION</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**EPIROC T35 JPS22SED2703**  
 Component  
**Right Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### FLUID CONDITION

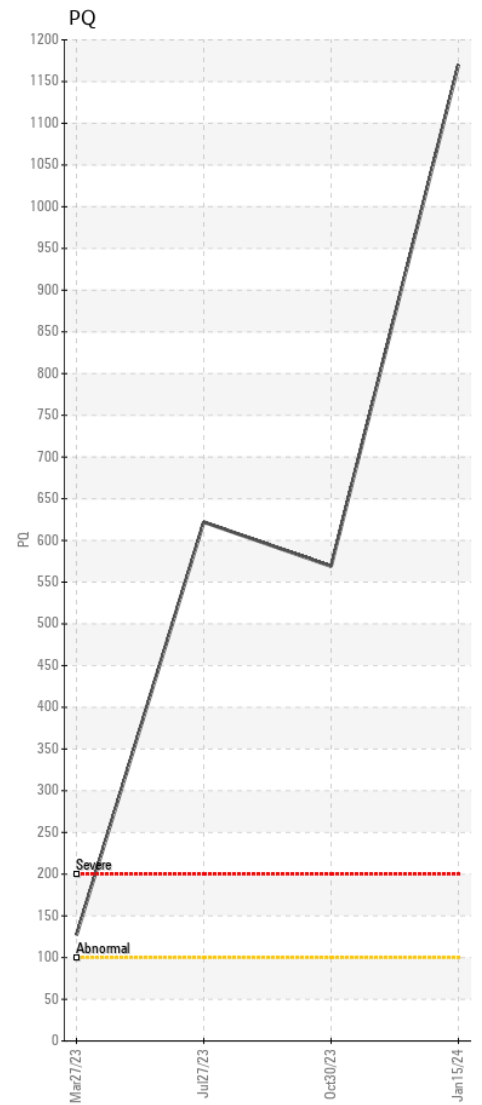
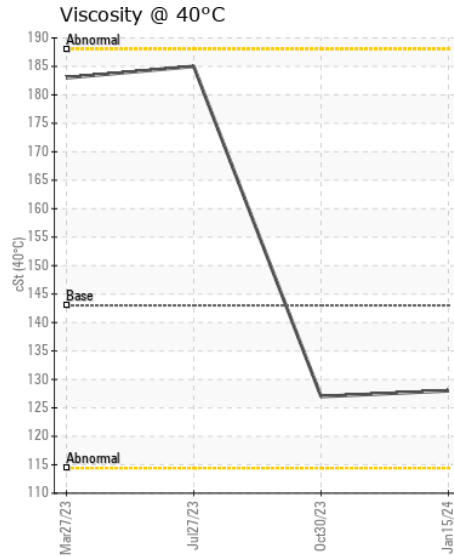
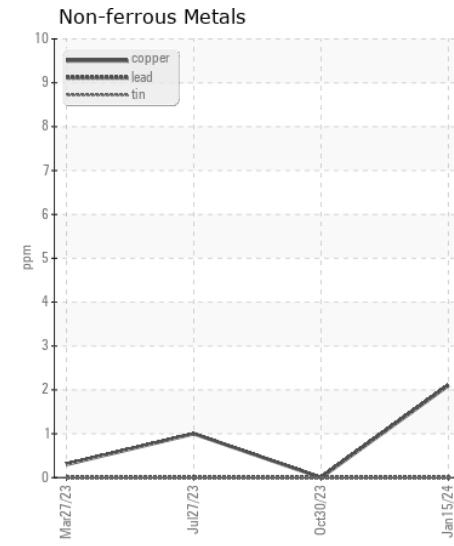
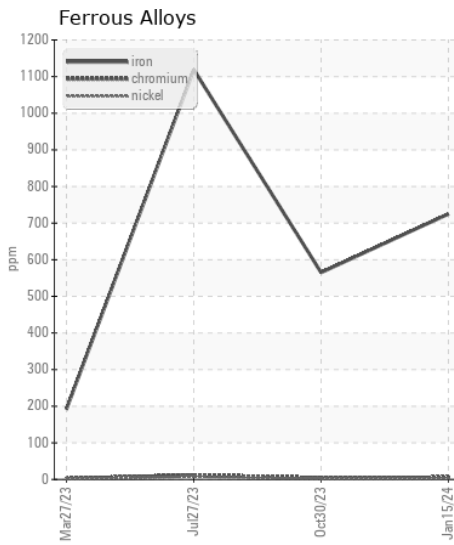
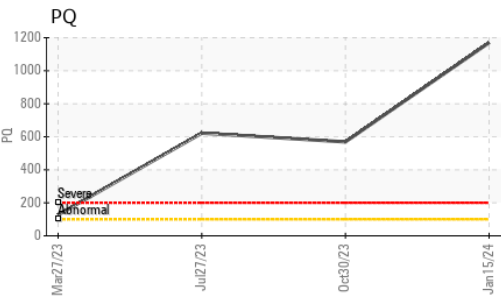
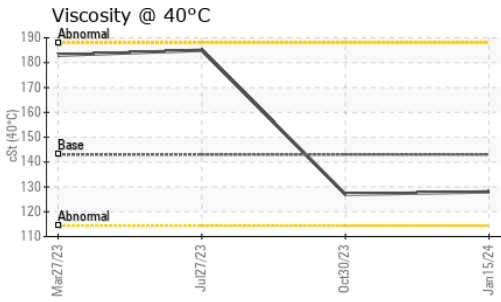
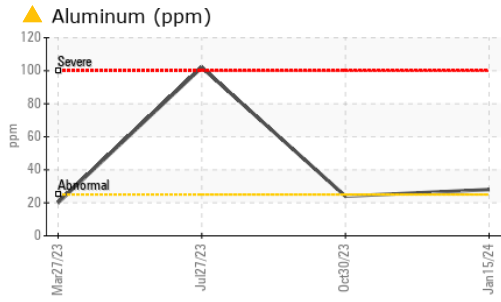
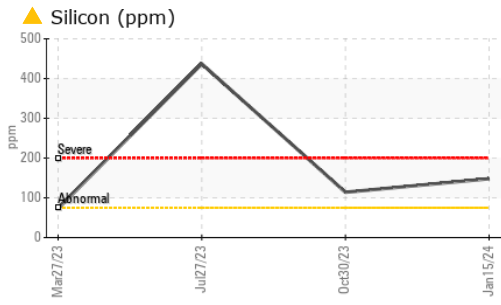
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197602</b>	JR0190863	JR0181616
Sample Date		Client Info		<b>15 Jan 2024</b>	30 Oct 2023	27 Jul 2023
Machine Age	hrs	Client Info		<b>2047</b>	1732	1151
Oil Age	hrs	Client Info		<b>1461</b>	500	1151
Filter Age	hrs	Client Info		<b>0</b>	500	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>None</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	SEVERE

PQ		ASTM D8184		<b>1170</b>	569	622
Iron	ppm	ASTM D5185m	>500	<b>725</b>	565	1119
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	4	12
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	2	8
Titanium	ppm	ASTM D5185m		<b>3</b>	2	9
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 28</b>	▲ 24	▲ 102
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>2</b>	0	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	<b>▲ 148</b>	▲ 114	● 437
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	7	24
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m	>170	<b>6</b>	4	19
Boron	ppm	ASTM D5185m	400	<b>14</b>	14	76
Barium	ppm	ASTM D5185m	200	<b>0</b>	5	18
Molybdenum	ppm	ASTM D5185m	12	<b>14</b>	10	44
Manganese	ppm	ASTM D5185m		<b>22</b>	19	60
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	4	8
Calcium	ppm	ASTM D5185m	150	<b>93</b>	83	53
Phosphorus	ppm	ASTM D5185m	1650	<b>443</b>	435	526
Zinc	ppm	ASTM D5185m	125	<b>56</b>	66	91
Sulfur	ppm	ASTM D5185m	22500	<b>16425</b>	15880	17333
Visc @ 40°C	cSt	ASTM D445	143	<b>128</b>	127	185



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197602 **Received** : 17 Jan 2024  
**Lab Number** : 06063006 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834388 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**CAROLINA CIVIL**  
 PO BOX 80337  
 RALEIGH, NC  
 US 27623  
 Contact:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: