



**James River  
Equipment**

**OIL ANALYSIS REPORT**

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



Machine Id  
**VOLVO EC380E C380E311738**  
Component  
**Swing Drive**  
Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0205837</b>	JR0188895	JR0178904
Sample Date		Client Info		<b>24 Apr 2024</b>	18 Oct 2023	01 Aug 2023
Machine Age	hrs	Client Info		<b>6637</b>	6129	5661
Oil Age	hrs	Client Info		<b>508</b>	5661	5661
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

Gear wear is indicated.

PQ		ASTM D8184		<b>44</b>	16	12
Iron	ppm	ASTM D5185m	>1200	<b>▲ 983</b>	1	0
Chromium	ppm	ASTM D5185m	>10	<b>▲ 11</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	0
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>7</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

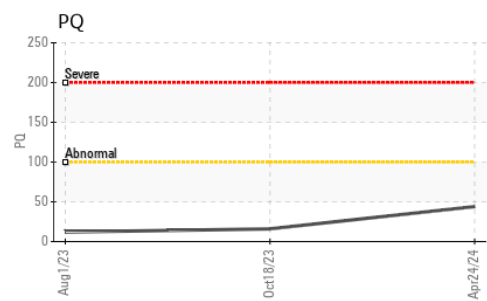
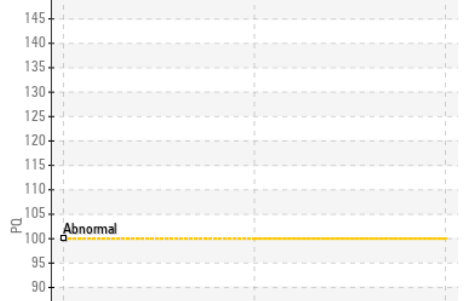
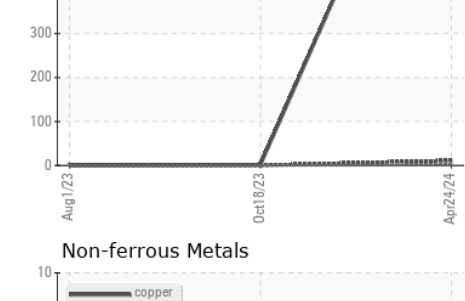
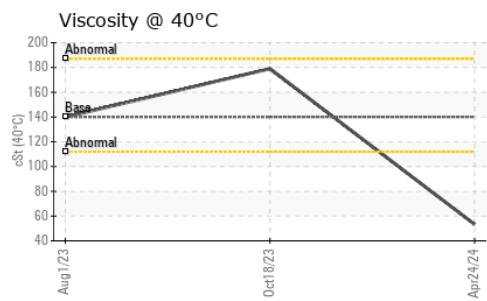
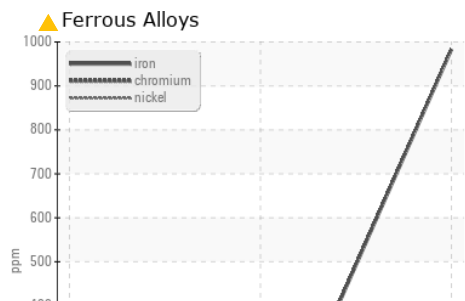
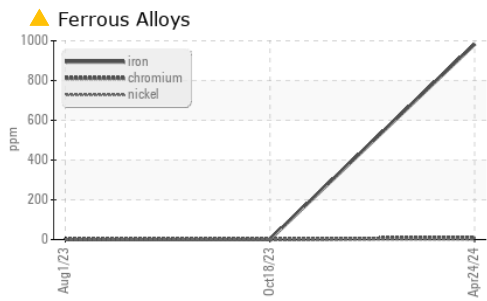
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>14</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Water		WC Method	>0.25	<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	>0.25	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	150	<b>286</b>	0	0
Barium	ppm	ASTM D5185m		<b>1</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>10</b>	0	0
Magnesium	ppm	ASTM D5185m	10	<b>2</b>	1	3
Calcium	ppm	ASTM D5185m	70	<b>26</b>	7	5
Phosphorus	ppm	ASTM D5185m	2000	<b>2187</b>	841	334
Zinc	ppm	ASTM D5185m	50	<b>19</b>	0	8
Sulfur	ppm	ASTM D5185m	20000	<b>29143</b>	23332	21493
Visc @ 40°C	cSt	ASTM D445	140	<b>53.3</b>	179	140



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0205837 **Received** : 26 Apr 2024  
**Lab Number** : 06161738 **Tested** : 28 Apr 2024  
**Unique Number** : 10997161 **Diagnosed** : 29 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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Certificate L2367  
 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)