



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

Machine Id  
**5049**  
 Component  
**Left Final Drive**  
 Fluid  
**NOT GIVEN (--- 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

The chromium level is abnormal. All other component wear rates are normal.

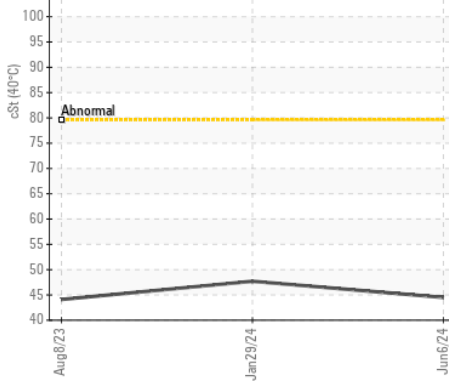
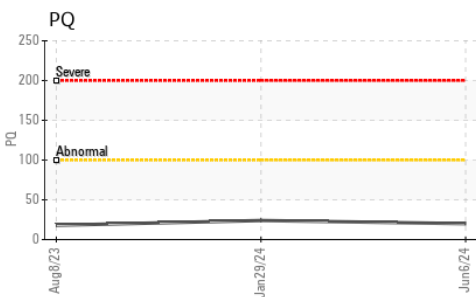
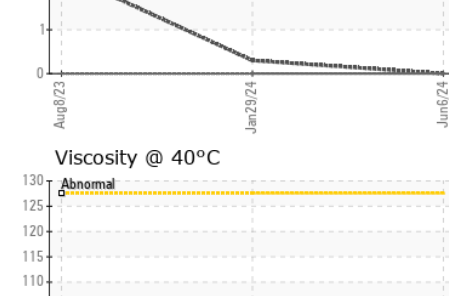
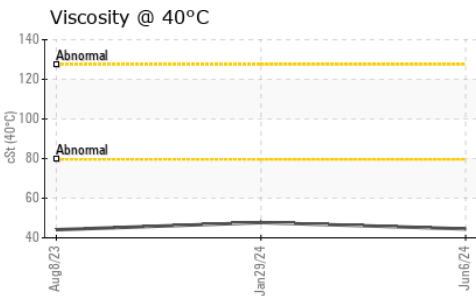
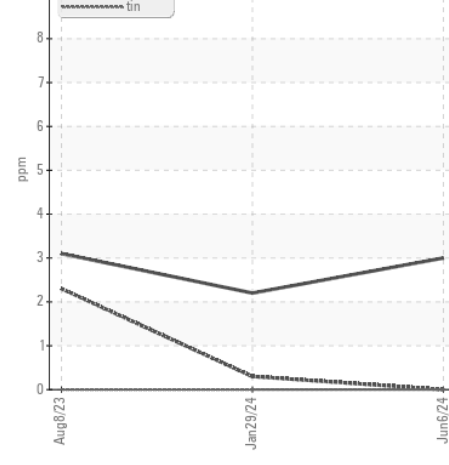
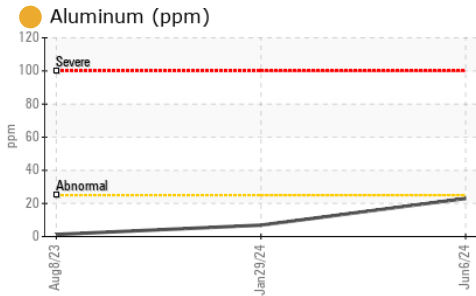
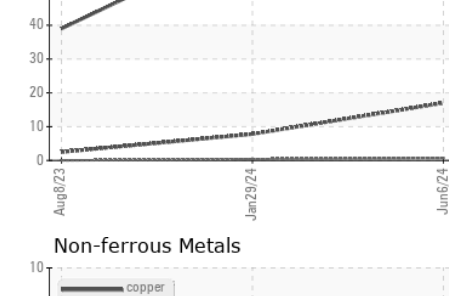
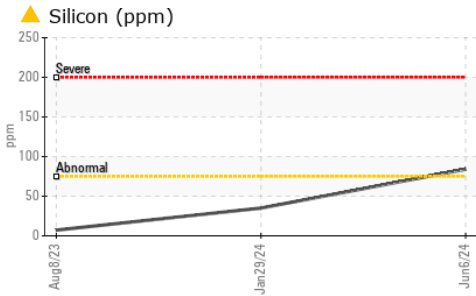
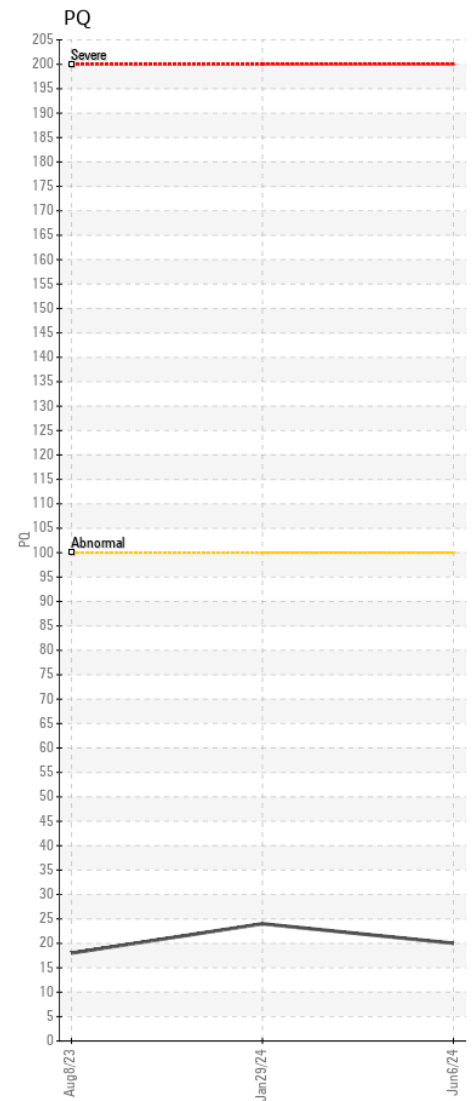
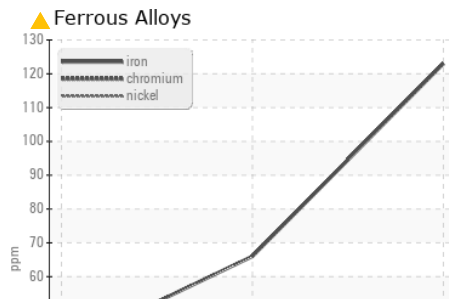
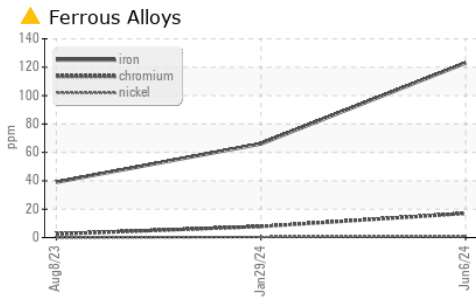
### CONTAMINATION

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>JR0210462</b>	JR0195161	JR0169398
Sample Date		Client Info		<b>06 Jun 2024</b>	29 Jan 2024	08 Aug 2023
Machine Age	hrs	Client Info		<b>2118</b>	1385	617
Oil Age	hrs	Client Info		<b>1385</b>	1000	617
Filter Age	hrs	Client Info		<b>1385</b>	1000	617
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
PQ		ASTM D8184		<b>20</b>	24	18
Iron	ppm	ASTM D5185m	>500	<b>123</b>	66	39
Chromium	ppm	ASTM D5185m	>10	<b>▲ 17</b>	8	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>3</b>	1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 23</b>	7	1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>50	<b>3</b>	2	3
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>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>▲ 84</b>	35	7
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	4	4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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		<b>5</b>	1	8
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	1	3
Magnesium	ppm	ASTM D5185m		<b>9</b>	4	4
Calcium	ppm	ASTM D5185m		<b>176</b>	152	94
Phosphorus	ppm	ASTM D5185m		<b>239</b>	815	276
Zinc	ppm	ASTM D5185m		<b>233</b>	1103	421
Sulfur	ppm	ASTM D5185m		<b>1456</b>	4823	9981
Visc @ 40°C	cSt	ASTM D445		<b>44.5</b>	47.7	44.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210462 **Received** : 21 Jun 2024  
**Lab Number** : 06217102 **Tested** : 24 Jun 2024  
**Unique Number** : 11089966 **Diagnosed** : 24 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
 22721 LADBROOK DRIVE STE 120  
 STERLING, VA  
 US 20166  
 Contact: ROBERT MOSS  
 robert.moss@patriotdev.net

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)

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F: