



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

Machine Id  
**1012**  
 Component  
**Left Final Drive**  
 Fluid  
**TDTO FLUID SAE 30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0210191</b>	JR0184499	JR0169702
Sample Date		Client Info		<b>17 Jun 2024</b>	03 Nov 2023	20 Jun 2023
Machine Age	hrs	Client Info		<b>6498</b>	5425	4755
Oil Age	hrs	Client Info		<b>500</b>	500	4000
Filter Age	hrs	Client Info		<b>500</b>	500	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>61</b>	26	41
Iron	ppm	ASTM D5185m	>500	<b>106</b>	65	128
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	4	8
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>15</b>	7	16
Lead	ppm	ASTM D5185m	>25	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>50	<b>3</b>	12	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

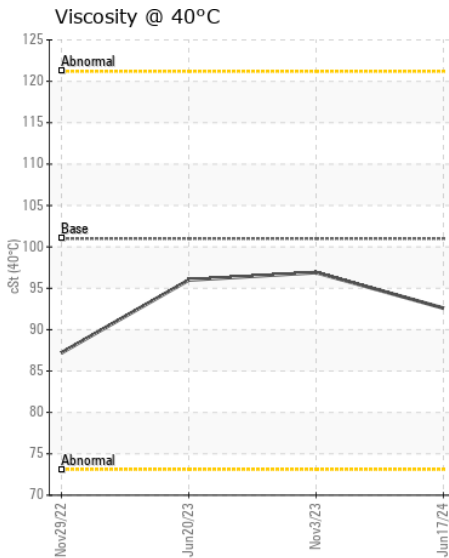
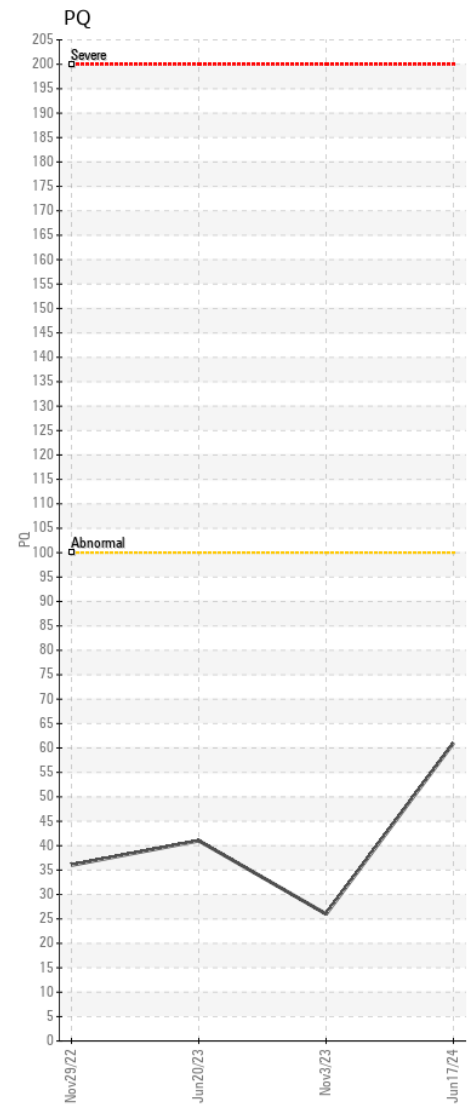
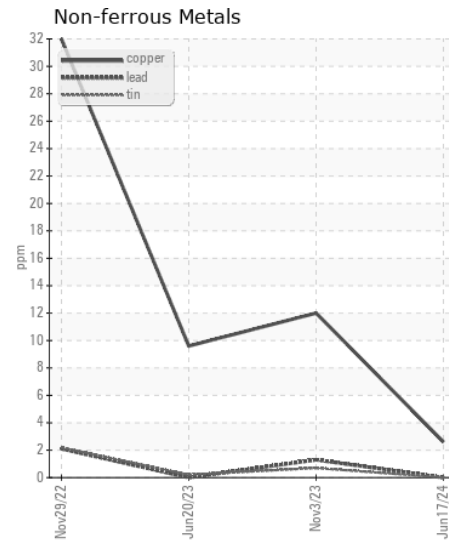
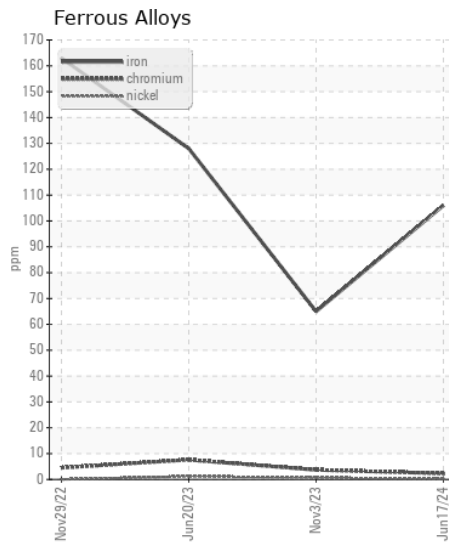
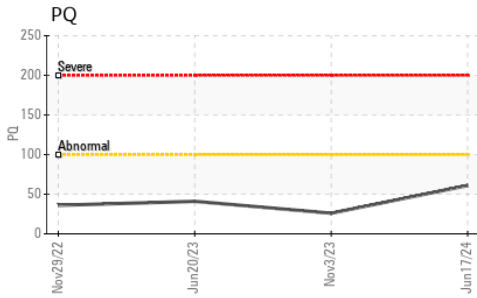
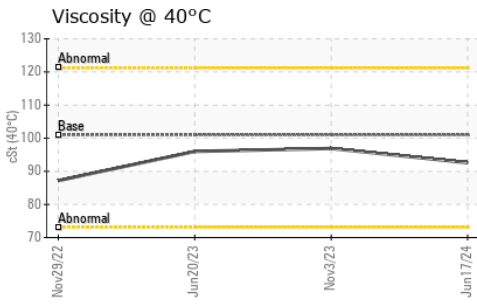
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>69</b>	32	67
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	<1	3
Boron	ppm	ASTM D5185m	37	<b>2</b>	1	0
Barium	ppm	ASTM D5185m	7	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>2</b>	3	6
Manganese	ppm	ASTM D5185m		<b>2</b>	1	2
Magnesium	ppm	ASTM D5185m	40	<b>21</b>	16	18
Calcium	ppm	ASTM D5185m	2650	<b>2761</b>	3170	3767
Phosphorus	ppm	ASTM D5185m	1050	<b>994</b>	889	1006
Zinc	ppm	ASTM D5185m	1075	<b>1112</b>	1056	1286
Sulfur	ppm	ASTM D5185m	5750	<b>8877</b>	3947	8538
Visc @ 40°C	cSt	ASTM D445	101	<b>92.6</b>	96.9	96.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210191 **Received** : 21 Jun 2024  
**Lab Number** : 06217098 **Tested** : 24 Jun 2024  
**Unique Number** : 11089962 **Diagnosed** : 24 Jun 2024 - Wes Davis  
**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)

T:  
F: