



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
1011
Component
Left Final Drive
Fluid
TDTO FLUID SAE 30 (--- 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.

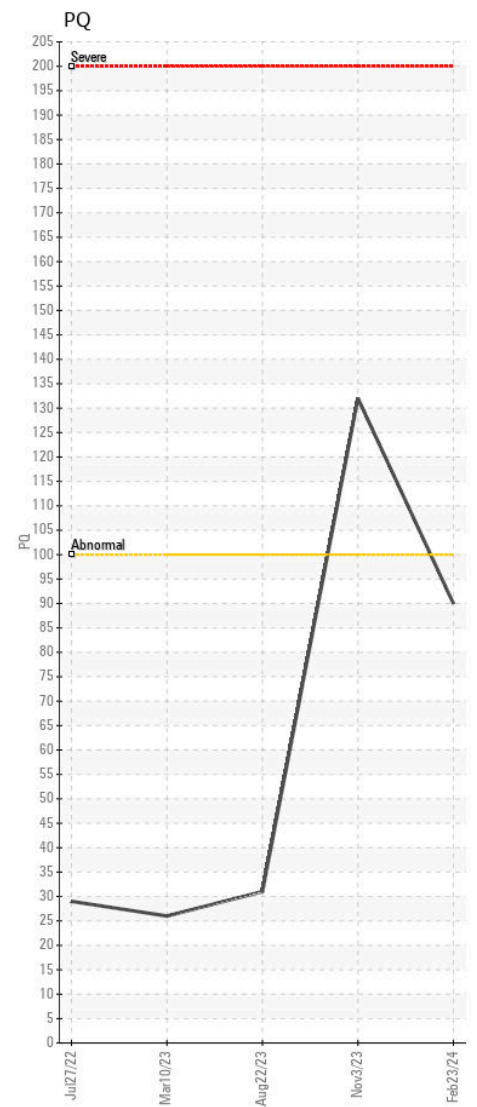
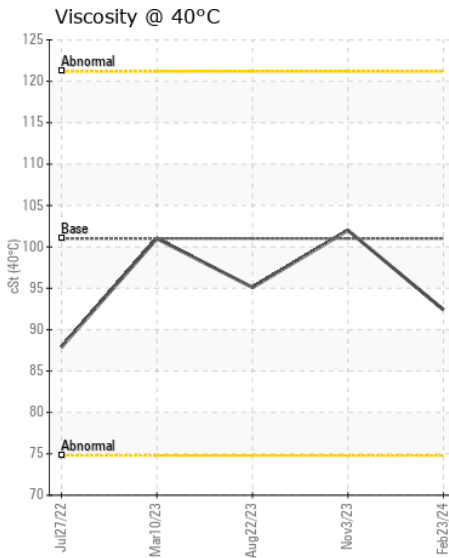
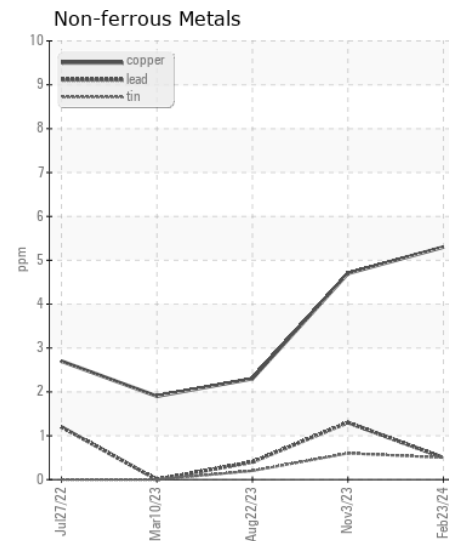
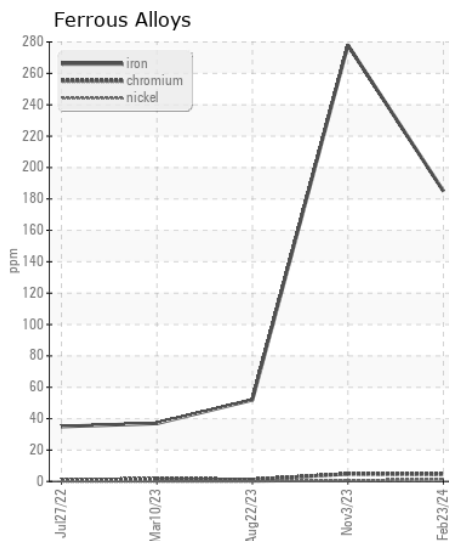
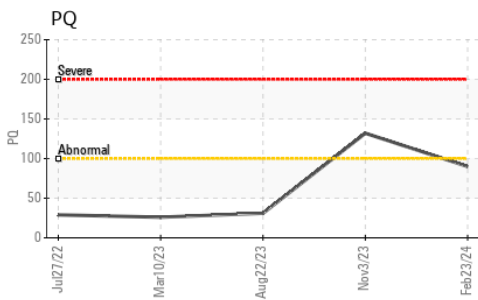
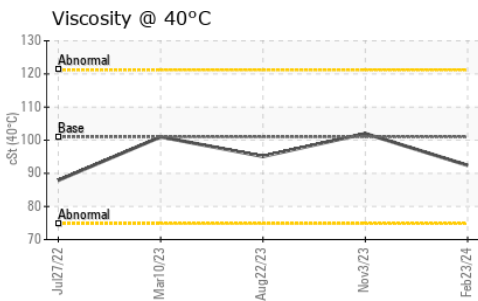
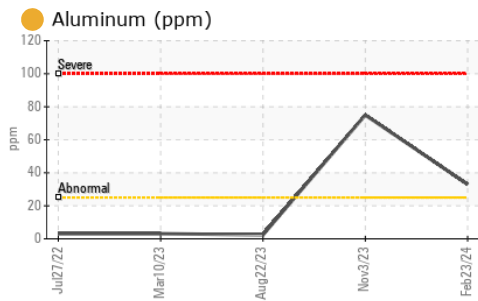
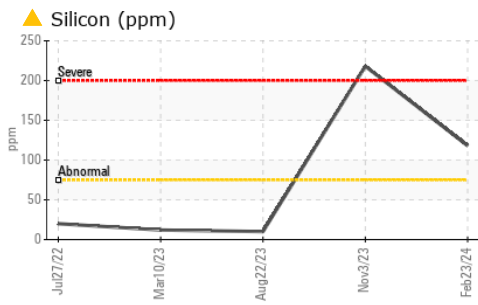
CONTAMINATION

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		JR0195387	JR0184500	JR0169938
Sample Date		Client Info		23 Feb 2024	03 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		7321	6628	6107
Oil Age	hrs	Client Info		3000	500	2000
Filter Age	hrs	Client Info		3000	500	2000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184		90	132	31
Iron	ppm	ASTM D5185m	>500	185	278	52
Chromium	ppm	ASTM D5185m	>10	5	5	1
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		3	5	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	33	75	2
Lead	ppm	ASTM D5185m	>25	<1	1	<1
Copper	ppm	ASTM D5185m	>50	5	5	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	118	218	10
Potassium	ppm	ASTM D5185m	>20	10	21	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	10	1
Boron	ppm	ASTM D5185m	37	3	1	3
Barium	ppm	ASTM D5185m	7	0	0	0
Molybdenum	ppm	ASTM D5185m	5	3	2	2
Manganese	ppm	ASTM D5185m		3	4	<1
Magnesium	ppm	ASTM D5185m	40	23	28	18
Calcium	ppm	ASTM D5185m	2650	2727	2887	3568
Phosphorus	ppm	ASTM D5185m	1050	839	825	938
Zinc	ppm	ASTM D5185m	1075	1064	963	1142
Sulfur	ppm	ASTM D5185m	5750	7261	4012	4625
Visc @ 40°C	cSt	ASTM D445	101	92.4	102	95.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195387 **Received** : 20 Mar 2024
Lab Number : 06123937 **Tested** : 21 Mar 2024
Unique Number : 10938088 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

PATRIOT DEVELOPMENT CORP
 27271 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: