OIL ANALYSIS REPORT

IND II · ROYAL PURPLE · PERFORMANCE UNDER PRESSURE

WEAR	**NORMAL**
CONTAMINATION	**NORMAL**
FLUID CONDITION	**NORMAL**

Machine Id
SL 3B
Component
Hydraulic System
Fluid
SHELL TELLUS S2 MX 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**RP0037242**	RP0028397	RP0028395
Sample Date		Client Info		**03 Jul 2024**	28 Mar 2024	21 Mar 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	**4**	0	2
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**6**	1	<1
Tin	ppm	ASTM D5185m	>20	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE

CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

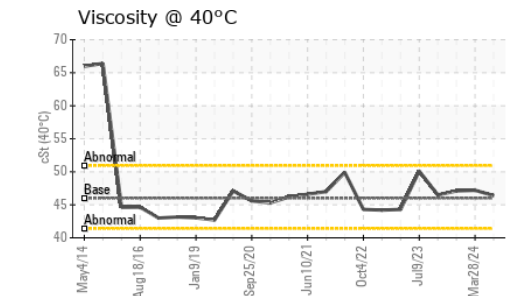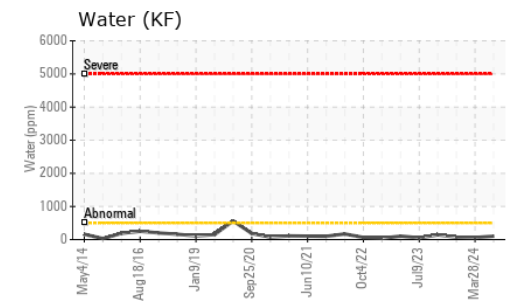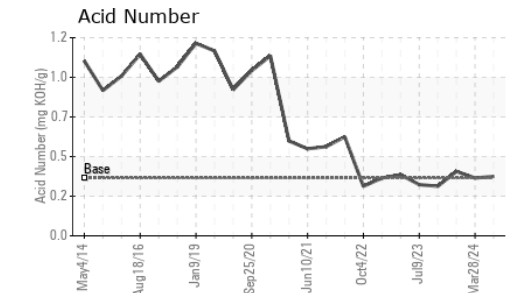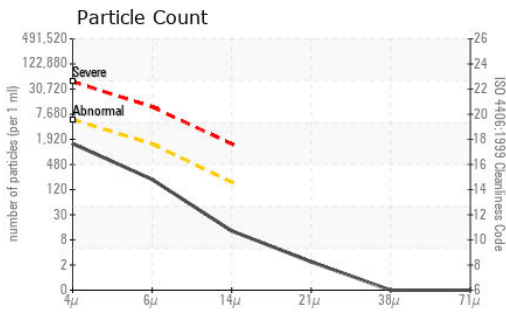| Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>15	**1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**3**	0	0
Water	%	ASTM D6304	>0.05	**0.010**	0.005	0.007
ppm Water	ppm	ASTM D6304	>500	**105**	60	71
Particles >4µm		ASTM D7647	>5000	**1322**	1705	1571
Particles >6µm		ASTM D7647	>1300	**186**	312	357
Particles >14µm		ASTM D7647	>160	**11**	29	28
Particles >21µm		ASTM D7647	>40	**2**	8	7
Particles >38µm		ASTM D7647	>10	**0**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/15/11**	18/15/12	18/16/12
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	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	>0.05	**NEG**	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		**4**	2	2
Boron	ppm	ASTM D5185m	0	**0**	0	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	3	0
Manganese	ppm	ASTM D5185m	0	**1**	0	0
Magnesium	ppm	ASTM D5185m	70	**45**	52	46
Calcium	ppm	ASTM D5185m	10	**4**	83	3
Phosphorus	ppm	ASTM D5185m	300	**275**	264	256
Zinc	ppm	ASTM D5185m	325	**284**	284	272
Acid Number (AN)	mg KOH/g	ASTM D8045	0.35	**0.36**	0.35	0.39
Visc @ 40°C	cSt	ASTM D445	46.0	**46.4**	47.2	47.1

Particle Count

Acid Number

Water (KF)

Viscosity @ 40°C

Particle Trend

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 40°C

Particle Count

Acid Number
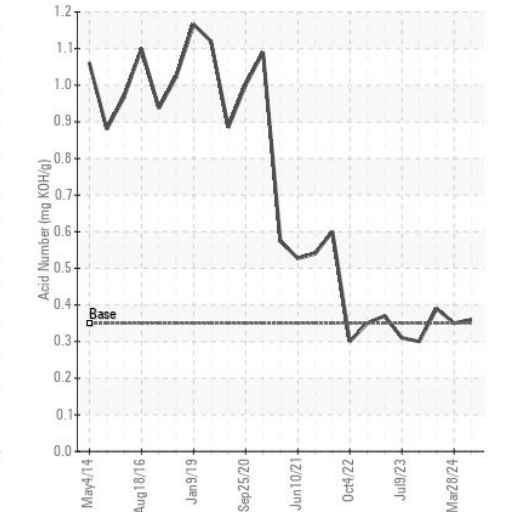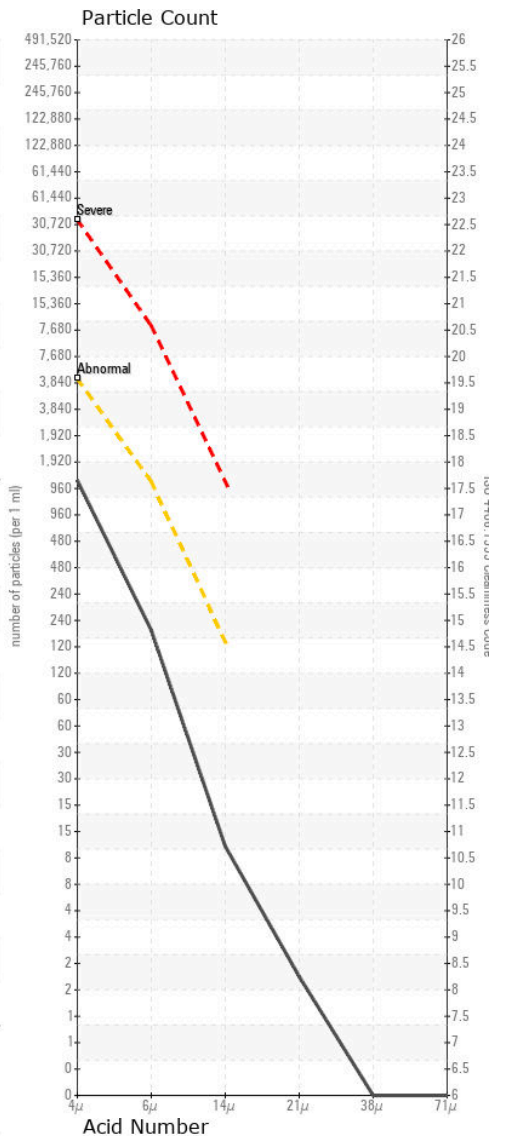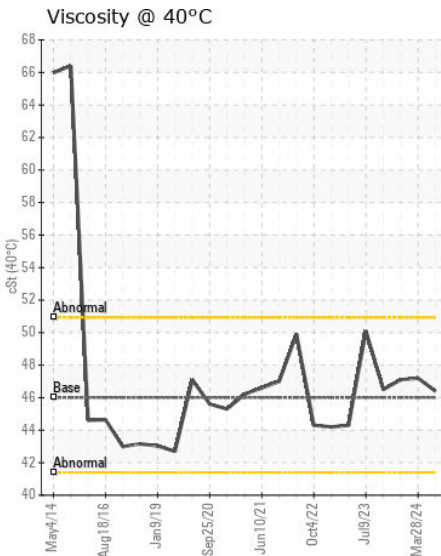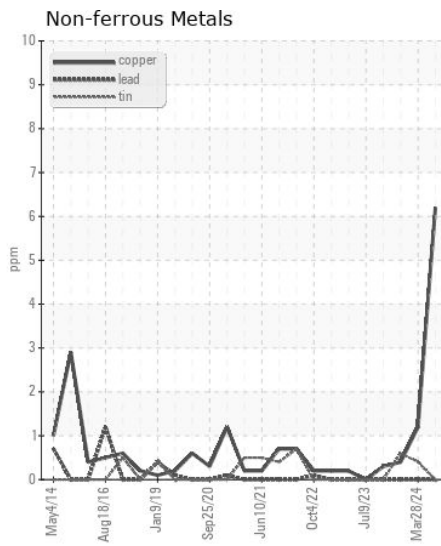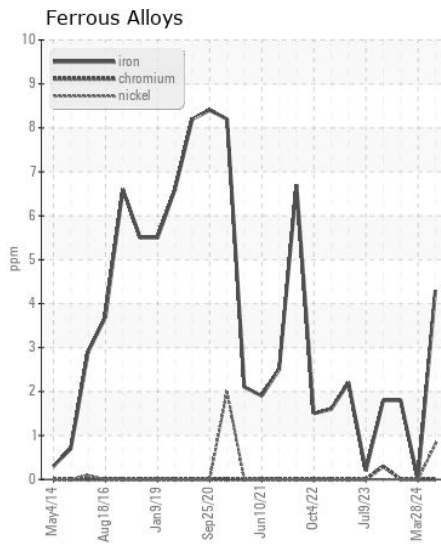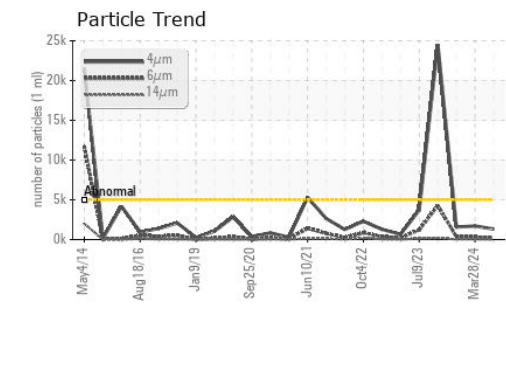
Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		**JOHNSON CONTROLS**
Sample No.	: RP0037242		1890 MINES RD
Lab Number	: 06238492		PULASKI, TN
Unique Number	: 11127326		US 38478
Test Package	: IND 2		Contact: JEREMY ROSE

Received	: 16 Jul 2024
Tested	: 18 Jul 2024
Diagnosed	: 18 Jul 2024 - Wes Davis

Certificate L2367

jeremy.b.rose@adient.com

T:

F:

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)