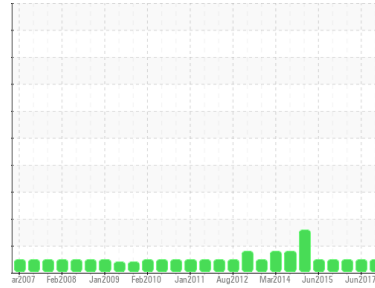




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**PAPER-1/KK/MP**

Component  
**Hydraulic System**

Fluid  
**ROYAL PURPLE SYNDRAULIC 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WCI2298973</b>	WCI2288778	WCI2284779
Sample Date	Client Info			<b>06 Aug 2018</b>	26 Jun 2017	01 Dec 2016
Machine Age	mths	Client Info		<b>0</b>	0	0
Oil Age	mths	Client Info		<b>40</b>	34	28
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>20	<b>4</b>	19	14
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

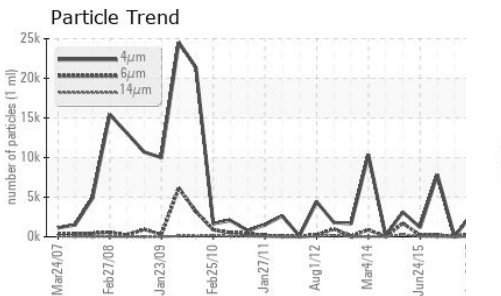
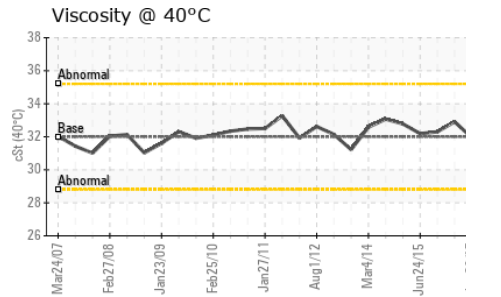
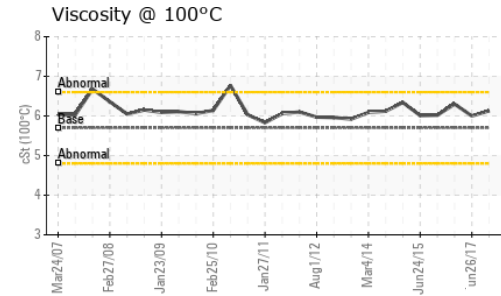
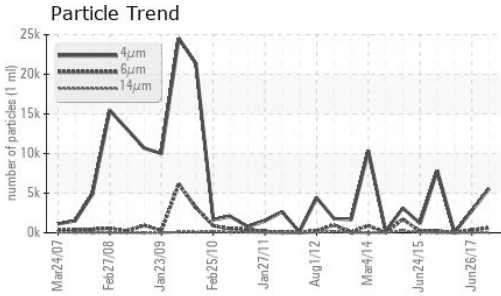
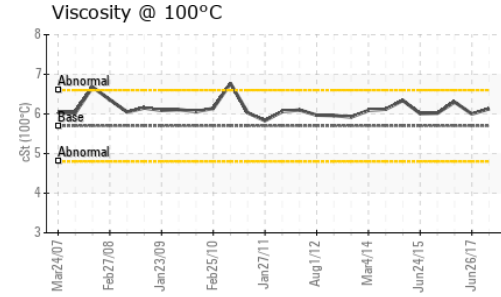
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m		<b>69</b>	15	27
Phosphorus	ppm	ASTM D5185m		<b>562</b>	677	682
Zinc	ppm	ASTM D5185m		<b>682</b>	680	705
Sulfur	ppm	ASTM D5185m		<b>17339</b>	15799	13699

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>2</b>	<1	1
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>5559</b>	2795	39
Particles >6µm		ASTM D7647	>1300	<b>613</b>	359	21
Particles >14µm		ASTM D7647	>160	<b>25</b>	20	3
Particles >21µm		ASTM D7647	>40	<b>5</b>	6	1
Particles >38µm		ASTM D7647	>10	<b>0</b>	2	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>--/17/14	<b>20/16/12</b>	19/16/11	12/12/9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.624</b>	0.774	0.792

# OIL ANALYSIS REPORT

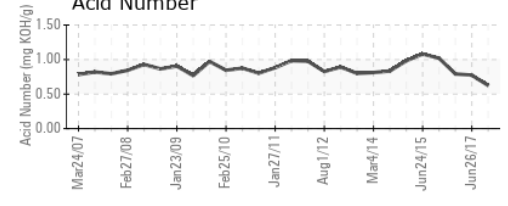
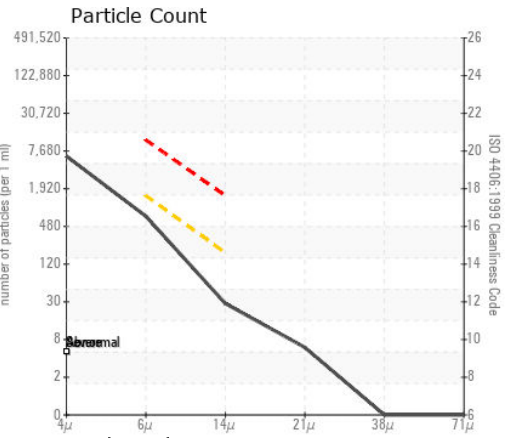
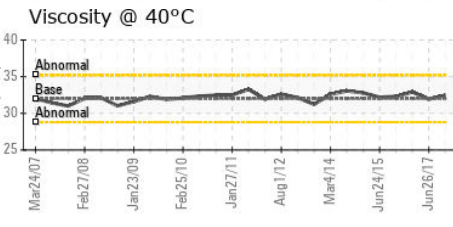
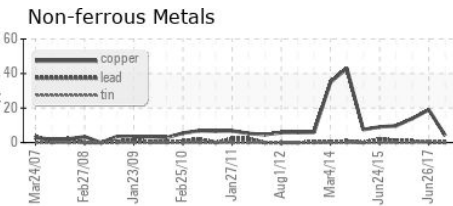
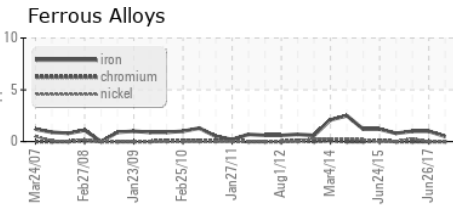


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	32.0	<b>32.45</b>	31.94	32.91
Visc @ 100°C	cSt	ASTM D445	5.7	<b>6.13</b>	6.00	6.3
Viscosity Index (VI)	Scale	ASTM D2270	116	<b>139</b>	136	145

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC12298973 **Received** : 20 Aug 2018  
**Lab Number** : **04533953** **Diagnosed** : 21 Aug 2018  
**Unique Number** : 8302784 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**J/POWER-BD**

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)

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