



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**SAP-1102272 - PPG DELAWARE [17-44577]**  
 Machine Id  
**INGERSOLL RAND US-43-15510-PSA-LIN - PPG DELAWARE (S/N 1008U10260)**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APCI2227974	---	---
Sample Date		Client Info		13 Oct 2014	---	---
Machine Age	hrs	Client Info		22000	---	---
Oil Age	hrs	Client Info		6000	---	---
Filter Age	hrs	Client Info		2000	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m		<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	0	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	<1	---	---
Tin	ppm	ASTM D5185m	>15	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	VLITE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

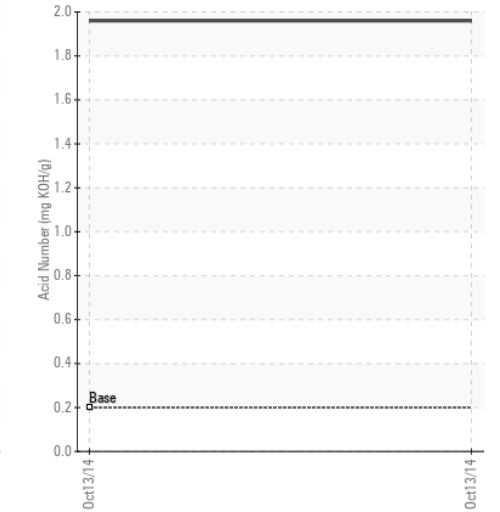
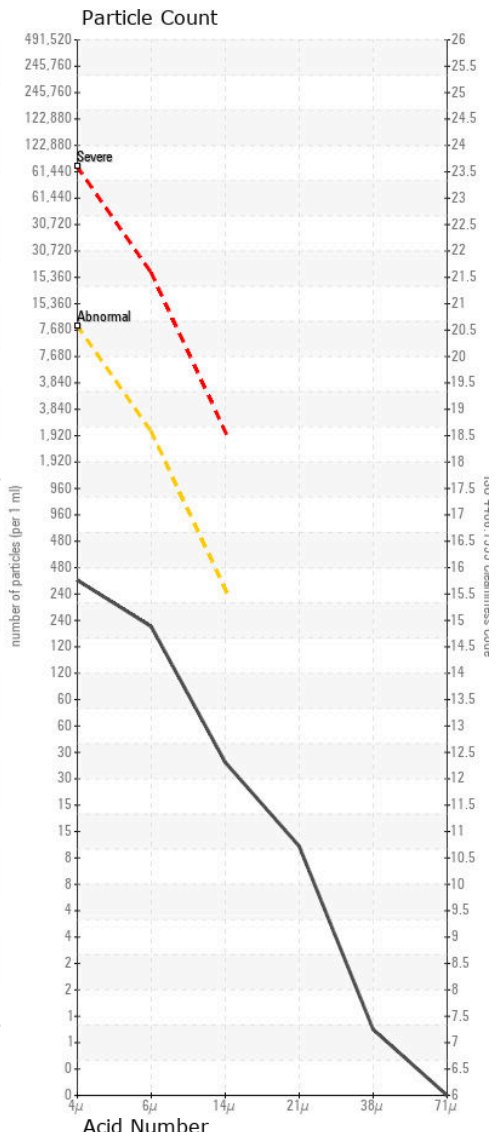
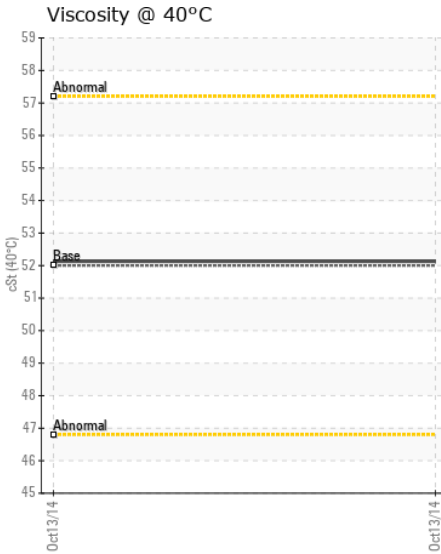
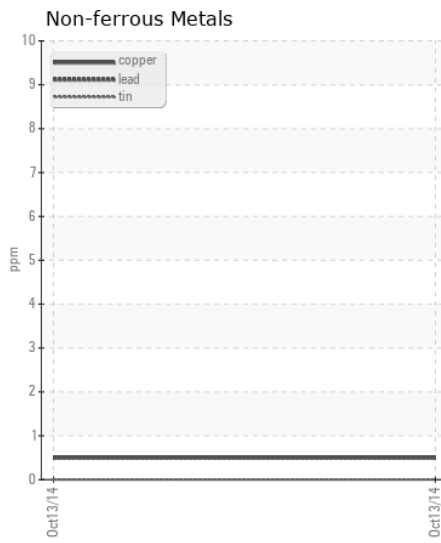
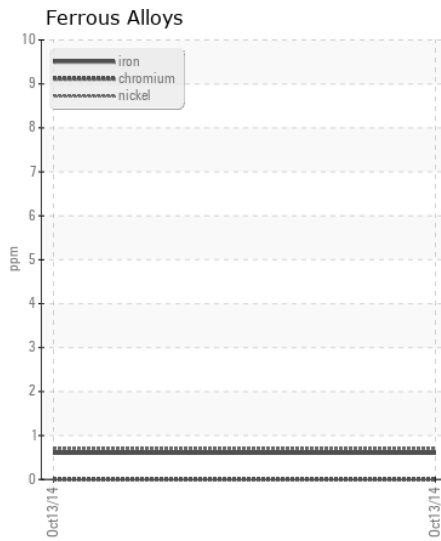
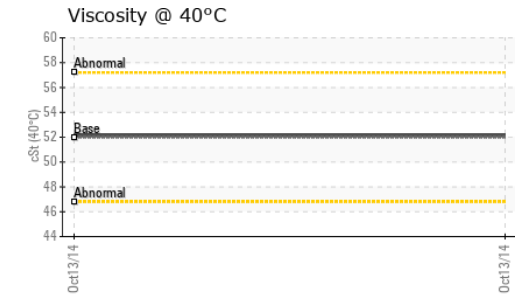
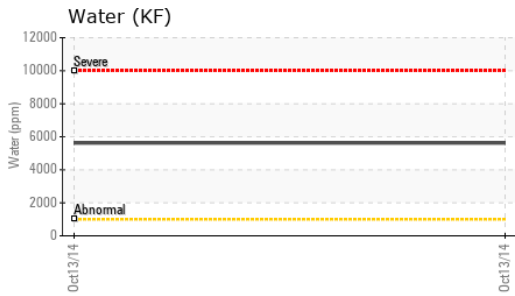
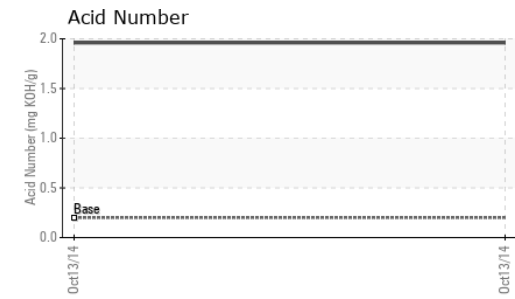
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>25	<1	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.1	0.562	---	---
ppm Water	ppm	ASTM D6304	>1000	5620	---	---
Particles >4µm		ASTM D7647	>10000	358	---	---
Particles >6µm		ASTM D7647	>2500	195	---	---
Particles >14µm		ASTM D7647	>320	33	---	---
Particles >21µm		ASTM D7647	>80	11	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/15/12	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.5%	---	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		18	---	---
Boron	ppm	ASTM D5185m		6	---	---
Barium	ppm	ASTM D5185m	556	622	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		0	---	---
Calcium	ppm	ASTM D5185m	242	2	---	---
Phosphorus	ppm	ASTM D5185m	0	2	---	---
Zinc	ppm	ASTM D5185m	0	2	---	---
Sulfur	ppm	ASTM D5185m	306	241	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.2	1.96	---	---
Visc @ 40°C	cSt	ASTM D445	52	52.13	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : APC12227974 **Received** : 06 Nov 2014  
**Lab Number** : 03619642 **Diagnosed** : 07 Nov 2014  
**Unique Number** : 6807619 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN**  
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 F: x:

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)