



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**SAP-325991 - PHILLIPS PLASTIC**  
 Machine Id  
**ATLAS COPCO 1403-8949704**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (30 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC06189746	APC06023047	APC05907187
Sample Date		Client Info		01 May 2024	07 Nov 2023	13 Jul 2023
Machine Age	hrs	Client Info		9451	5321	2657
Oil Age	hrs	Client Info		0	0	2805
Filter Age	hrs	Client Info		0	0	2805
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.

Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>15	0	2	6
Lead	ppm	ASTM D5185m	>65	0	0	0
Copper	ppm	ASTM D5185m	>65	2	0	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT

## CONTAMINATION

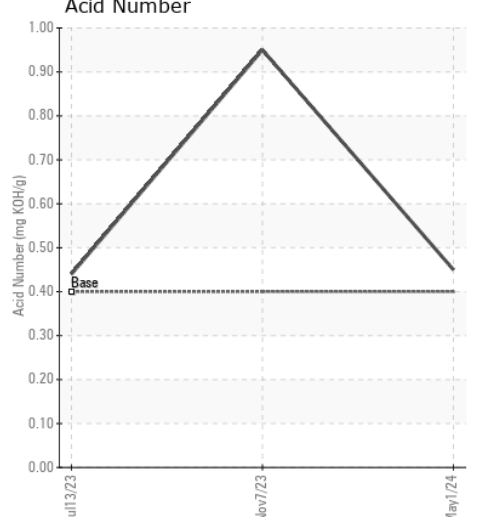
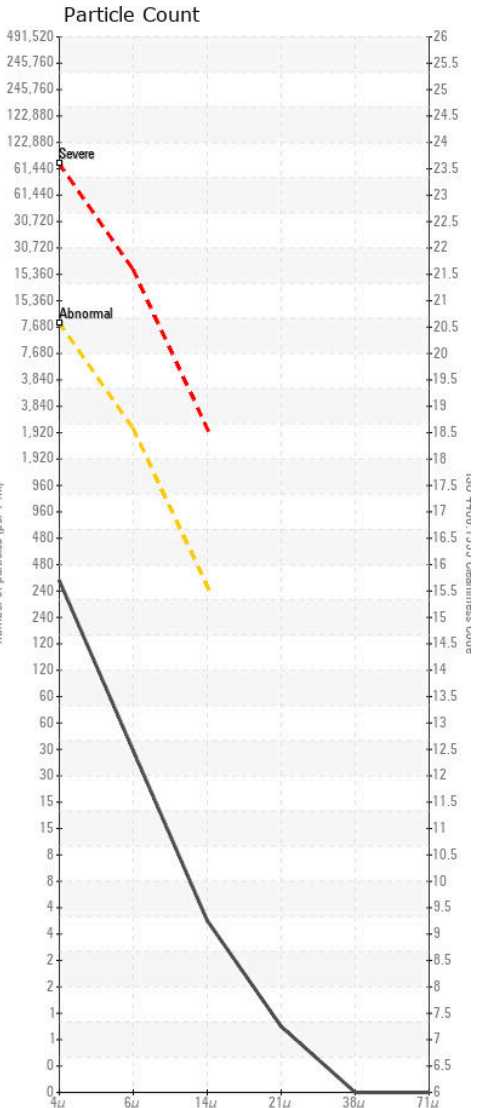
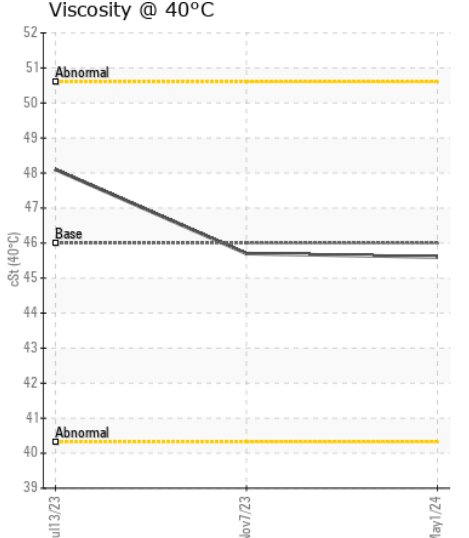
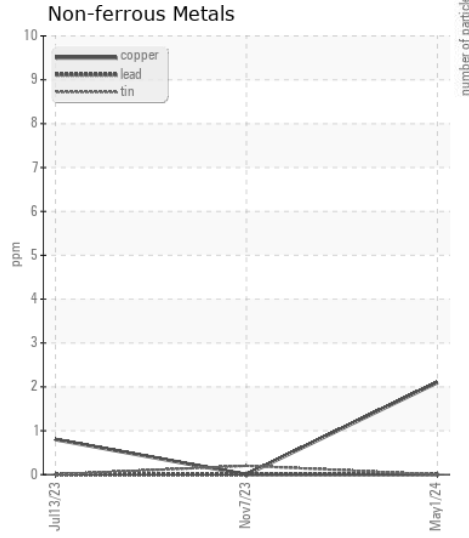
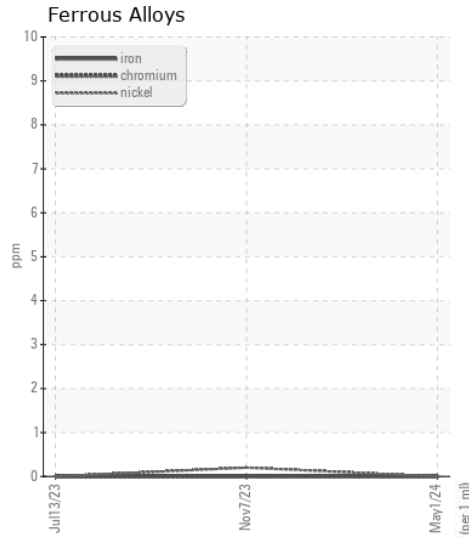
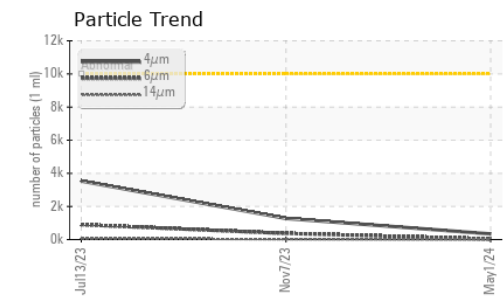
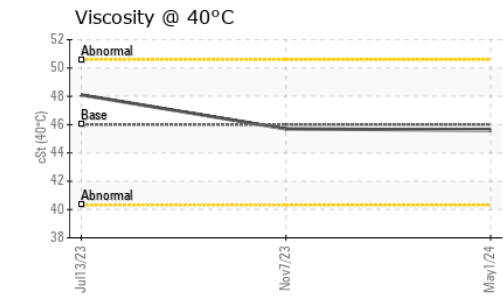
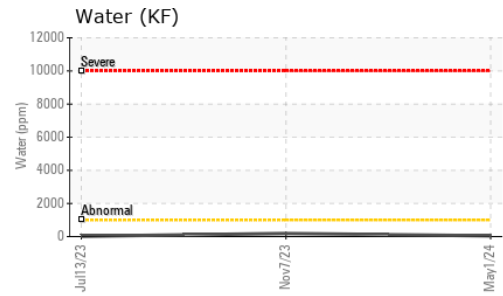
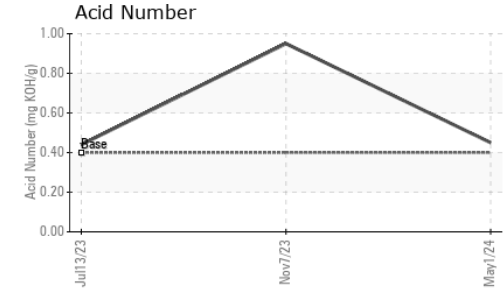
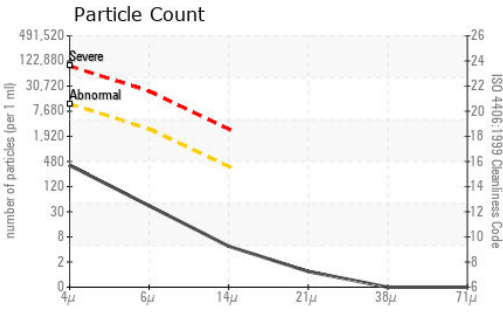
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>35	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.004	0.019	0.002
ppm Water	ppm	ASTM D6304	>1000	44	191	18.2
Particles >4µm		ASTM D7647	>10000	342	1276	3533
Particles >6µm		ASTM D7647	>2500	37	371	899
Particles >14µm		ASTM D7647	>320	4	24	56
Particles >21µm		ASTM D7647	>80	1	6	18
Particles >38µm		ASTM D7647	>20	0	0	3
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/12/9	17/16/12	19/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.1	NEG	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	79	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	<1	75	0
Calcium	ppm	ASTM D5185m	2	0	3	0
Phosphorus	ppm	ASTM D5185m		5	10	60
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		16679	17206	315
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.45	0.95	0.44
Visc @ 40°C	cSt	ASTM D445	46	45.6	45.7	48.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : APC06189746 **Received** : 23 May 2024  
**Lab Number** : 06189746 **Tested** : 25 May 2024  
**Unique Number** : 11046498 **Diagnosed** : 29 May 2024 - Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN**  
 7201 HAMILTON BLVD  
 ALLENTOWN, PA  
 US 18195  
 Contact: MICHAEL PROTZEK  
 protzema@airproducts.com

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)