



A Y2K Fluid Power Brand

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PORT
 Component
Hydraulic System
 Fluid
PHILLIPS 66 Powerflow NZ AW46 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		Y2K0001548	Y2K0001544	Y2K0001540
Sample Date		Client Info		24 Oct 2023	01 Sep 2023	19 Jul 2023
Machine Age	hrs	Client Info		5	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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal. Copper noted as stable.

Iron	ppm	ASTM D5185m	>20	20	19	18
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		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	49	▲ 48	▲ 48
Tin	ppm	ASTM D5185m	>20	2	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

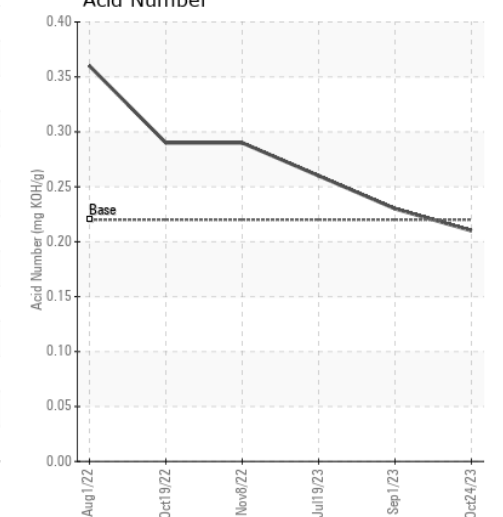
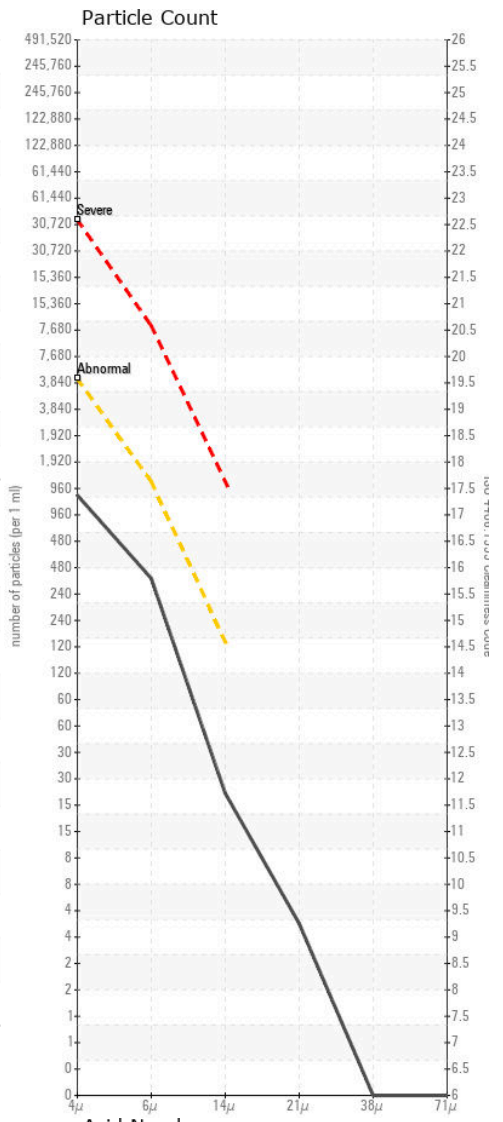
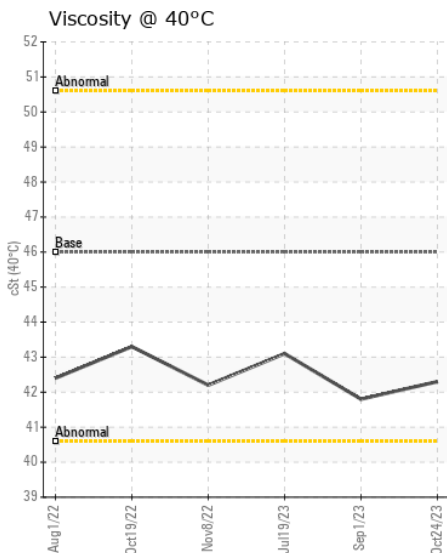
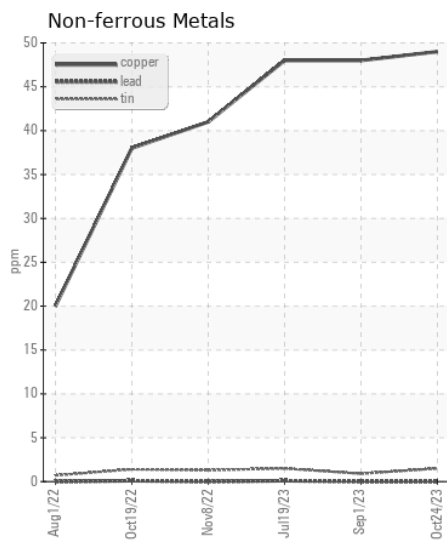
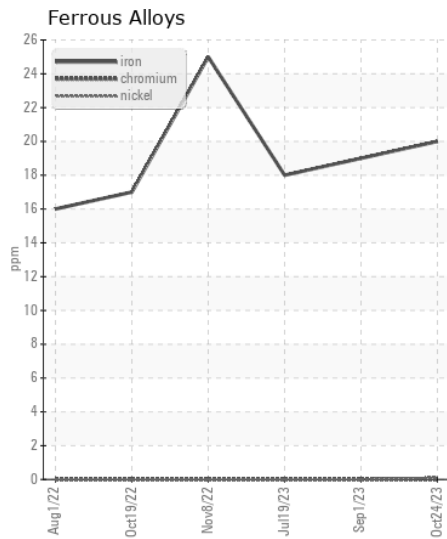
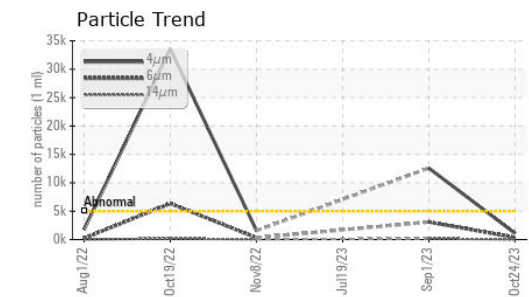
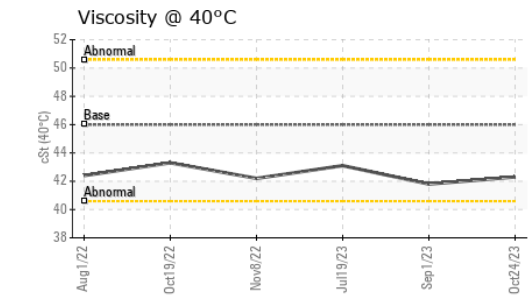
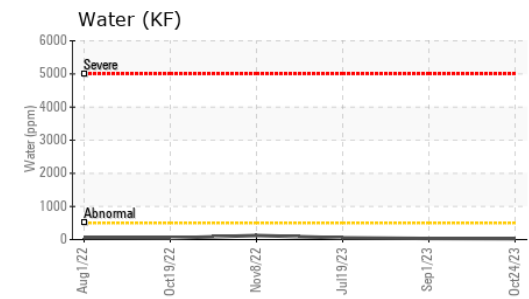
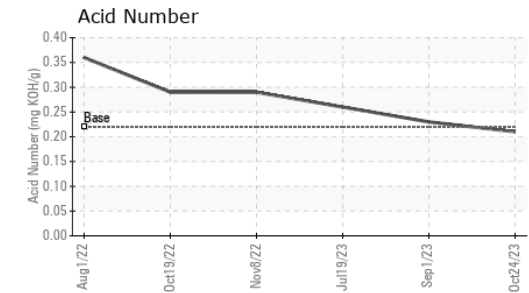
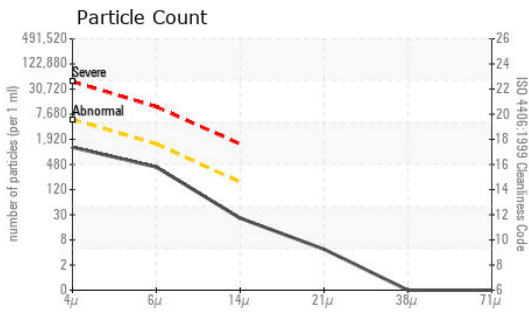
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.003	0.003	0.005
ppm Water	ppm	ASTM D6304	>500	26.8	32.7	52.6
Particles >4µm		ASTM D7647	>5000	1088	▲ 12577	---
Particles >6µm		ASTM D7647	>1300	366	▲ 3096	---
Particles >14µm		ASTM D7647	>160	22	150	---
Particles >21µm		ASTM D7647	>40	4	28	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/12	▲ 21/19/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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.

Sodium	ppm	ASTM D5185m		2	2	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	7	<1
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	5	<1
Calcium	ppm	ASTM D5185m		66	68	68
Phosphorus	ppm	ASTM D5185m		333	335	333
Zinc	ppm	ASTM D5185m		431	413	438
Sulfur	ppm	ASTM D5185m		877	975	1136
Acid Number (AN)	mg KOH/g	ASTM D8045	0.22	0.21	0.23	0.26
Visc @ 40°C	cSt	ASTM D445	46	42.3	41.8	43.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : Y2K0001548 **Received** : 01 Nov 2023
Lab Number : 05995559 **Diagnosed** : 30 Jan 2024
Unique Number : 10723919 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: KF)

LACROSSE QUEEN
 2713 HEMSTOCK ST
 LACROSSE, WI
 US 54603
 Contact: Service Manager

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: