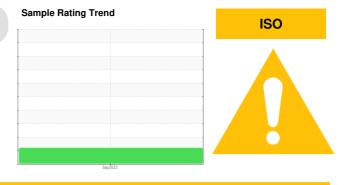


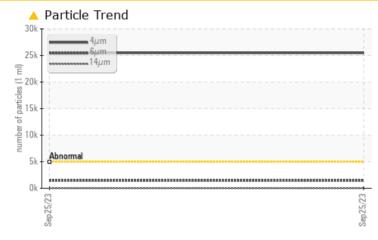
PROBLEM SUMMARY



PARKER T.O. HYD UNIT

Hydraulic System Fluid PHILLIPS 66 AVIATION X/C 5606 (40 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL				
Particles >4µm	ASTM D7647	>5000	🔺 25477				
Particles >6µm	ASTM D7647	>1300	🔺 1465				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>				

Customer Id: 3MBBRO Sample No.: TO60001356 Lab Number: 05963538 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

PARKER T.O. HYD UNIT

Hydraulic System

PHILLIPS 66 AVIATION X/C 5606 (40 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

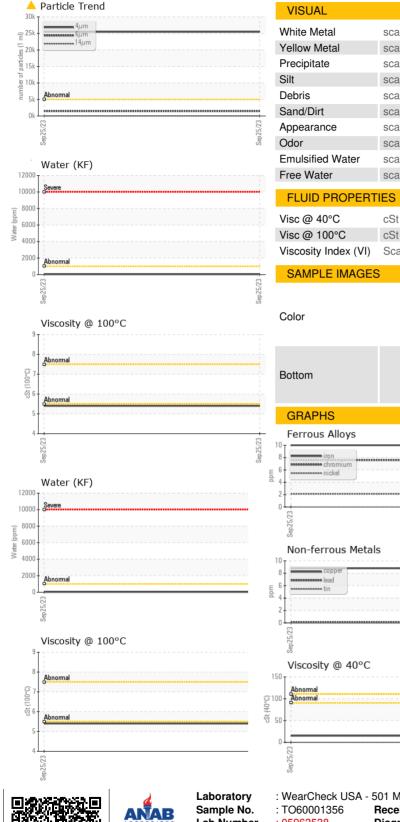
Fluid Condition

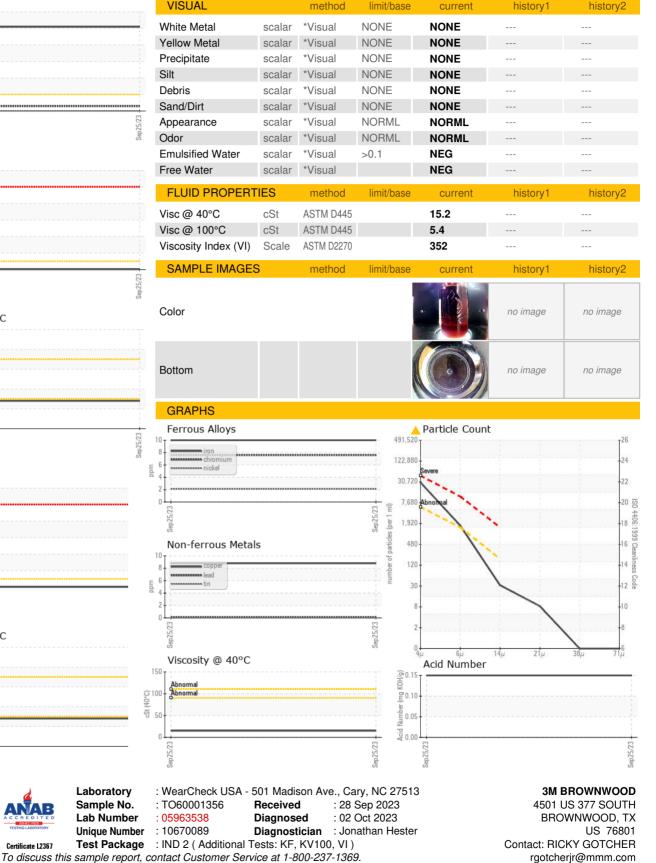
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001356		
Sample Date		Client Info		25 Sep 2023		
Machine Age	yrs	Client Info		40		
Oil Age	yrs	Client Info		1		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>30	10		
Chromium	ppm	ASTM D5185m	>2	8		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		- <1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>2	1		
Lead		ASTM D5185m	>10	، <1		
	ppm					
Copper	ppm	ASTM D5185m	>25	9		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		469		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		166		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.1	0.003		
ppm Water	ppm	ASTM D6304	>1000	34.3		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4 25477		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	28		
Particles >21µm		ASTM D7647	>40	7		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/18/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.15		
	ing itoring	AUTIM D0040		0.15		



OIL ANALYSIS REPORT





Certificate L2367

Lab Number

Unique Number

* - 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)

Contact/Location: RICKY GOTCHER - 3MBBRO

T:

F: