

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### Machine Id **PARKER OSS HPU** Component **Hydraulic System** Fluid **BRAYCO CASTRO (120 GAL)**

#### RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

### **WEAR**

All component wear rates are normal.

#### CONTAMINATION

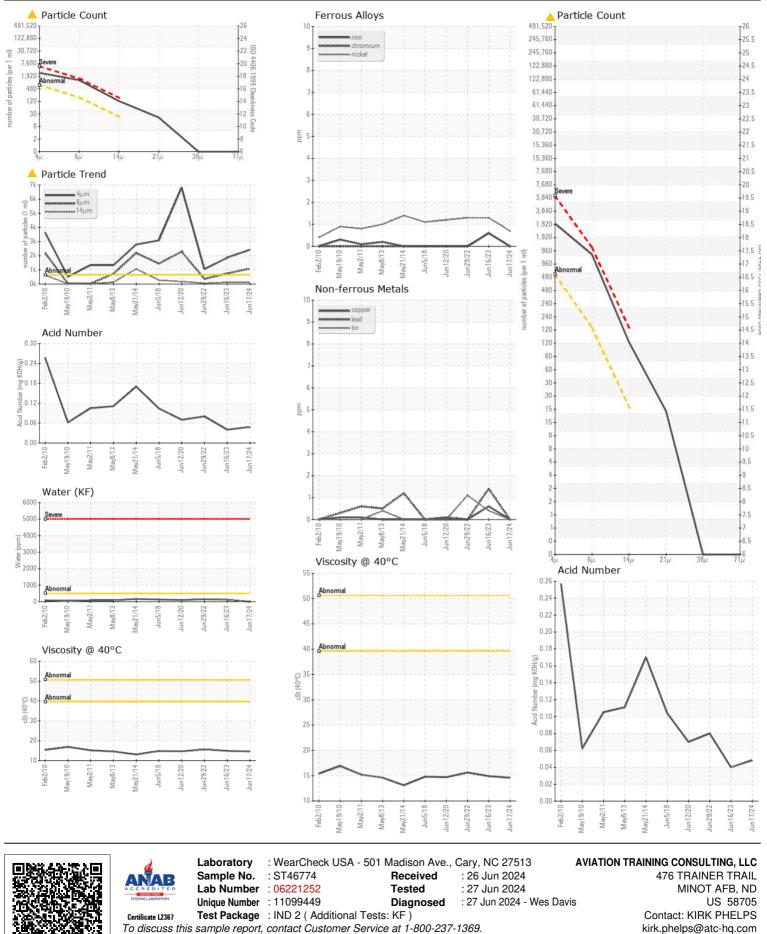
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ST46774	ST44097	ST42964
	Sample Date		Client Info		17 Jun 2024	16 Jun 2023	29 Jun 2022
	Machine Age	hrs	Client Info		0	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				ABNORMAL	ABNORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>30	0	<1	0
	Chromium	ppm	ASTM D5185m	>2	0	<1	0
	Nickel	ppm	ASTM D5185m	>2	<1	1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	-	0	0	<1
	Aluminum	ppm	ASTM D5185m	>2	0	0	<1
	Lead	ppm	ASTM D5185m	>10	0	1	0
	Copper	ppm	ASTM D5185m	>25	0	<1	0
	Tin	ppm	ASTM D5185m	>20	0	<1	1
	Vanadium	ppm	ASTM D5185m	NIGNE	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>25	0	<1	0
	Potassium	ppm	ASTM D5185m	>20	0	2	0
	Water	%	ASTM D6304	>0.05	0.00	0.011	0.014
	ppm Water	ppm	ASTM D6304	>500	0	113.7	142.1
	Particles >4µm	pp	ASTM D7647	>640	A 2426	▲ 1856	▲ 1057
	Particles >6µm		ASTM D7647	>160	<u> </u>	<b>7</b> 48	▲ 357
	Particles >14µm		ASTM D7647	>20	<b>109</b>	<b>1</b> 15	▲ 50
	Particles >21µm		ASTM D7647	>4	<u> </u>	<b>A</b> 24	<u> </u>
	Particles >38µm		ASTM D7647	>3	0	0	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>16/14/11	<b>18/17/14</b>	▲ 18/17/14	17/16/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	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	>0.05	NEG	NEG	NEG
					•	4	0
	Sodium	ppm	ASTM D5185m		0	<1	0
	Boron Barium	ppm	ASTM D5185m		0	0	<1
		ppm	ASTM D5185m		0	0	0
	Molybdenum Mangaposo	ppm	ASTM D5185m ASTM D5185m		0	<1	0
	Manganese Magnesium	ppm	ASTM D5185m		0	<1 <1	0
	Calcium	ppm ppm	ASTM D5185m		0	0	0
	Phosphorus	ppm	ASTM D5185m		730	661	627
	Zinc	ppm	ASTM D5185m		2	0	7
	Sulfur	ppm	ASTM D5185m		0	106	35
	Acid Number (AN)	mg KOH/g	ASTM D3103III		0.048	0.04	0.08
	Visc @ 40°C	cSt	ASTM D0045 ASTM D445		14.6	14.9	15.6
		001	70 HW D440		14.0	14.0	10.0



\* - 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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