

### **OIL ANALYSIS REPORT**

Sample Rating Trend



8\_8\_\_8.

# C5 TUMBLER

Component Pump Fluid USPI VAC 100 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

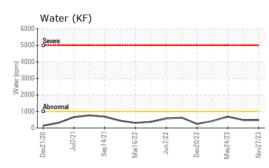
#### Fluid Condition

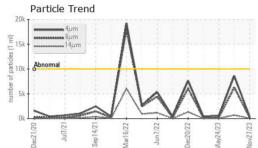
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

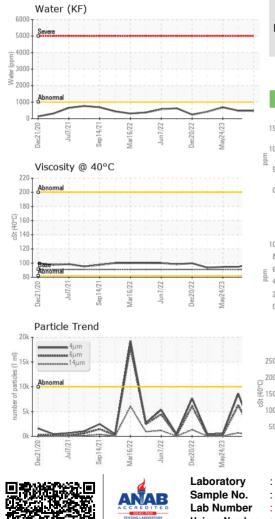
Sample NumberClient InfoUSPM31Sample DateClient Info27 Nov 2Machine AgehrsClient Info0	<b>2023</b> 17 Aug 2023 24 May 2023
	0 ,
Machine Age hrs Client Info 0	
	0 0
Oil Age hrs Client Info 0	0 0
Oil Changed Client Info N/A	N/A N/A
Sample Status NORMA	L ABNORMAL NORMAL
WEAR METALS method limit/base curr	rent history1 history2
Iron ppm ASTM D5185m >90 0	<1 <1
Chromium ppm ASTM D5185m >5 <1	0 <1
Nickel ppm ASTM D5185m >5 0	0 <1
Titanium ppm ASTM D5185m >3 <1	0 0
Silver ppm ASTM D5185m >3 0	0 0
Aluminum ppm ASTM D5185m >7 0	0 0
Lead ppm ASTM D5185m >12 0	0 1
Copper ppm ASTM D5185m >30 0	0 0
Tin ppm ASTM D5185m >9 0	<1 <1
Vanadium ppm ASTM D5185m 0	0 0
Cadmium ppm ASTM D5185m 0	0 0
ADDITIVES method limit/base curr	rent history1 history2
Boron ppm ASTM D5185m 0 0	0 0
Barium ppm ASTM D5185m 0 0	0 0
Molybdenum ppm ASTM D5185m 0 0	0 0
Manganese ppm ASTM D5185m 0	0 <1
Magnesium ppm ASTM D5185m 0 0	<1 <1
Calcium ppm ASTM D5185m 0 0	2 <1
Phosphorus ppm ASTM D5185m 1800 1022	1361 1347
Zinc ppm ASTM D5185m 0 0	0 0
Sulfur ppm ASTM D5185m 0 0	28 0
CONTAMINANTS method limit/base curr	rent history1 history2
Silicon ppm ASTM D5185m >60 5	5 4
Sodium ppm ASTM D5185m 0	0 <1
Potassium ppm ASTM D5185m >20 1	0 2
Water % ASTM D6304 >.1 0.047	0.048 0.068
ppm Water ppm ASTM D6304 >1000 478	481.7 682.4
FLUID CLEANLINESS method limit/base curr	rent history1 history2
Particles >4μm ASTM D7647 >10000 395	8613 592
Particles >6μm ASTM D7647 >2500 241	<b>▲</b> 6263 205
Particles >14μm ASTM D7647 >640 51	<b>▲</b> 686 25
Particles >21μm ASTM D7647 >160 9	42 7
Particles >38μm ASTM D7647 >40 0	0 1
Particles >71µm ASTM D7647 >10 0	0 0
Oil Cleanliness ISO 4406 (c) >20/18/16 16/15	<b>/13</b> ▲ 20/20/17 16/15/12
FLUID DEGRADATION method limit/base curr	rent history1 history2
Acid Number (AN) mg KOH/g ASTM D8045 0.05 0.12	0.21 0.16



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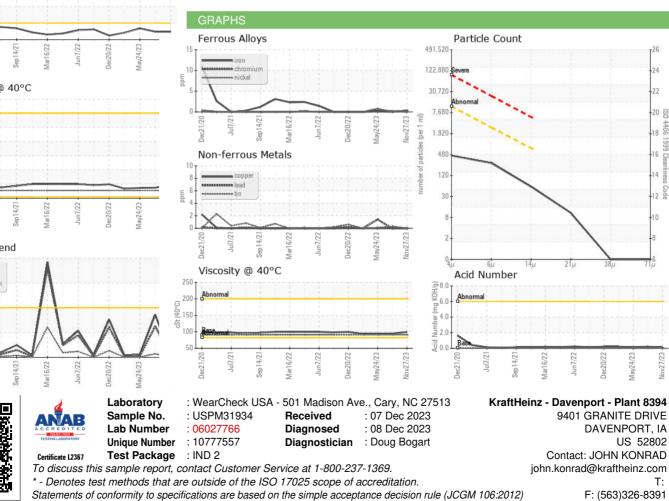






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	99.2	94.8	94.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: JOHN KONRAD - KRADAV