

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id BUSCH VP-3B (S/N 2000009063)

Component Vacuum Pump Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

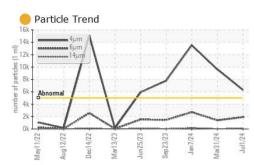
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

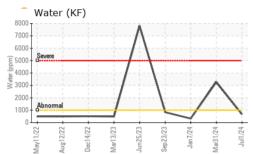
Iron ppm ASTM D5185m >20 0 0 <1	2024
Sample DateClient InfoO1 Jul 202431 Mar 202407 JanMachine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImageClient InfoN/AN/AWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>2000<1ChromiumppmASTM D5185m>200<1<1NickelppmASTM D5185m>200<1<1SilverppmASTM D5185m>2000<1SilverppmASTM D5185m>2000<1AluminumppmASTM D5185m>2000<1CopperppmASTM D5185m>2000<1VanadiumppmASTM D5185m>200<1<1CopperppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m0<1<1<1VanadiumppmASTM D5185m0 <th></th>	
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Iron ppm ASTM D5185m >20 0 0 <1	
Chromium ppm ASTM D5185m >20 0 0 <1	tory2
Chromium ppm ASTM D5185m >20 0 0 <1	
Titanium ppm ASTM D5185m 0 0 <1	
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >20 0 0 2 Lead ppm ASTM D5185m >20 0 0 0 2 Lead ppm ASTM D5185m >20 0 0 0 0 Copper ppm ASTM D5185m >20 0 0 <1 1 Tin ppm ASTM D5185m >20 0 <1 <1 0 Cadmium ppm ASTM D5185m >0 <1 0 <1 ADDITIVES method limit/base current history1 history1	
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Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 0 0 <1	
Copper ppm ASTM D5185m >20 0 0 <1	
Tin ppm ASTM D5185m >20 0 <1	
VanadiumppmASTM D5185m0<1	
Cadmium ppm ASTM D5185m 0 <1	
ADDITIVES method limit/base current history1 his	
	tory2
Barium ppm ASTM D5185m 0 0 0 0	
Molybdenum ppm ASTM D5185m O O <1	
Manganese ppm ASTM D5185m 0 0 <1	
Magnesium ppm ASTM D5185m O O <1	
Calcium ppm ASTM D5185m O O O <1	
Phosphorus ppm ASTM D5185m 1800 727 749 684	
Zinc ppm ASTM D5185m 0 0 0 0	
Sulfur ppm ASTM D5185m 0 0 28 0	
CONTAMINANTS method limit/base current history1 his	tory2
Silicon ppm ASTM D5185m >15 6 6 7	
Sodium ppm ASTM D5185m <1	
Potassium ppm ASTM D5185m >20 <1 3 1	
Water % ASTM D6304 >.1 0.067 ▲ 0.327 0.03	2
ppm Water ppm ASTM D6304 >1000 676 🔺 3269 325	
FLUID CLEANLINESS method limit/base current history1 his	tory2
Particles >4μm ASTM D7647 >5000 ● 6304 ● 9621 ▲ 1352	26
Particles >6μm ASTM D7647 >1300 ● 1914 ● 1401 ▲ 2722	>
Particles >14μm ASTM D7647 >160 91 26 ▲ 169	
Particles >21μm ASTM D7647 >40 18 7 47	
Particles >38μm ASTM D7647 >10 1 8	
Particles >71μm ASTM D7647 >3 0 2	
Oil Cleanliness ISO 4406 (c) >19/17/14	
FLUID DEGRADATION method limit/base current history1 his	9/15
Acid Number (AN) mg KOH/g ASTM D8045 0.05 0.089 0.22 0.09	9/15 tory2

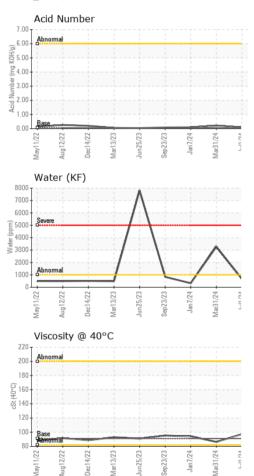
Contact/Location: SERVICE MANAGER ? - TYSAMAPRO



OIL ANALYSIS REPORT



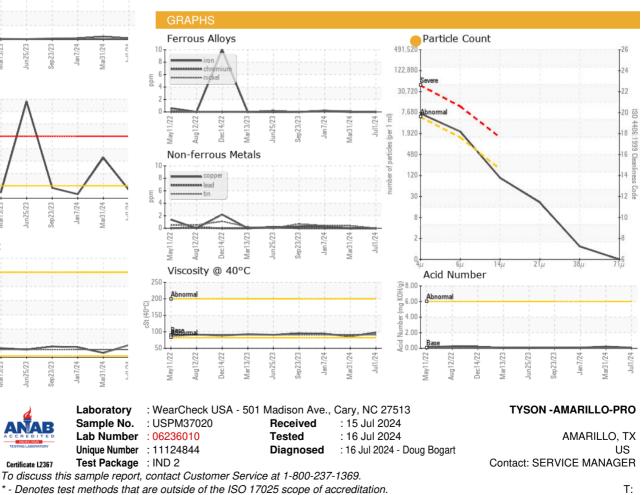




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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	97.3	86.1	94.1
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						a. the second se
Pottom						1

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: TYSAMAPRO [WUSCAR] 06236010 (Generated: 07/16/2024 12:51:31) Rev: 1

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