

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Ic VACUUM 4B (S/N FM362014) Component

Pump Fluic USPI VAC 100 (--- GAL)

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 component. The amount and size of particulates present in the system is acceptable.

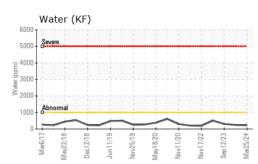
Fluid Condition

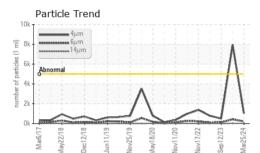
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

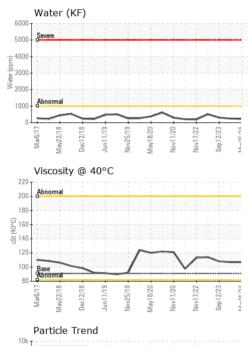
Sample Number Client Info USPM36516 USPM31561 USPM292 Sample Date Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Age Client Info N/A N/A N/A N/A Sample Status Imethod Imit/base current History1 History1 VEAR METALS method Imit/base current History1 History1 Kickel ppm ASTM D5185m >5 <1 <1 0 Kickel ppm ASTM D5185m >3 0 0 0 0 Lead ppm ASTM D5185m >12 0	-						
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Sample Number Client Info USPM36516 USPM31561 USPM294 Sample Date Client Info 0 0 0 0 Sample Date Is Dec 2023 12 Sep 20 18 Dec 2023 12 Sep 20 Dil Age hrs Client Info 0 0 0 0 Dil Changed Client Info N/A N/A N/A N/A Sample Status Imathematic Client Info NORMAL ATTENTION NORMAL WEAR METALS method limit/base current history1 history1 Vickel ppm ASTM D5185m >5 <1 0 0 Siker ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >12 0 0 0 Aradium ppm ASTM D5185m >3 0 0 0 0 Aradium ppm ASTM D5185m >3 0 0 0 0 0	SAMPLE INFOR	MATION	method	18 Dec2018 Jun2019 Nov2	CUIP May2020 Nov2020 Nov2022 S	p ²⁰²³ Mar ² 02 history1	history2
Sample Date Client Info 25 Mar 2024 18 Dec 2023 12 Sep 20 Machine Age hrs Client Info 0 0 0 Dil Age hrs Client Info 0 0 0 Sample Status Client Info N/A N/A N/A WEAR METALS method imit/base current history1 history1 Vickel ppm ASTM D5185m >5 <1							USPM29691
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Dil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history1 VEAR METALS method limit/base current history1 history1 Chromium ppm ASTM D5165m >5 <1	•	hrs	Client Info		0	0	
Sample Status Imit bits NORMAL ATTENTION NORMAL WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >5 <1	-		Client Info		N/A	N/A	N/A
ron ppm ASTM D5185m >90 0 0 <1 Chromium ppm ASTM D5185m >5 <1	-				NORMAL	ATTENTION	NORMAL
Ppm ASTM D5185m >5 <1 0 0 Nickel ppm ASTM D5185m >5 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 <1 <1 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >7 <1	ron	ppm	ASTM D5185m	>90	0	0	<1
Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >7 <1	Chromium	ppm	ASTM D5185m	>5	<1	0	0
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >7 <1	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
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Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 0 0 1 0 Calcium ppm ASTM D5185m 0 0 -1 0 Phosphorus ppm ASTM D5185m 1800 770 791 698 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 Solicon ppm ASTM D5185m >60 2 2 2 2 Sodium ppm ASTM D5185m >60 2 2 2 2 Sodium ppm ASTM D5185m >20 <1	Barium	ppm	ASTM D5185m	0	0	0	0
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Potassium ppm ASTM D5185m >20 <1 <1 2 Water % ASTM D6304 >.1 0.022 0.024 0.030 oppm Water ppm ASTM D6304 >.1000 227 246 302.9 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >5000 1032 7959 492 Particles >6µm ASTM D7647 >1300 218 415 144 Particles >14µm ASTM D7647 >160 22 30 13 Particles >21µm ASTM D7647 >10 7 9 4 Particles >38µm ASTM D7647 >10 3 0 0 Particles >71µm ASTM D7647 >3 0 1 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 17/15/12 20/16/12 16/14/14		ppm		>60			
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Dil Cleanliness ISO 4406 (c) >19/17/14 17/15/12 20/16/12 16/14/1 FLUID DEGRADATION method limit/base current history1 history1							
FLUID DEGRADATION method limit/base current history1 histor							
						20/16/12	16/14/11
Acid Number (AN) mg KOH/g ASTM D8045 0.05 0.17 0.20 0.20							history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.17	0.20	0.20

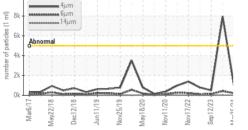


OIL ANALYSIS REPORT



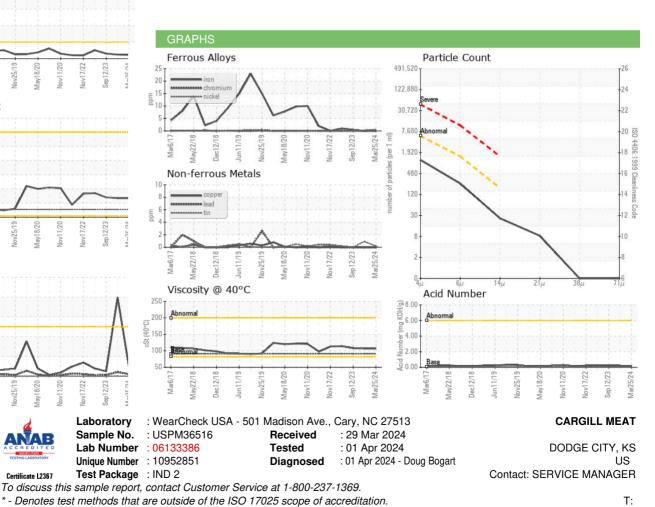






VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	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	107	107	108	
SAMPLE IMAGES	S	method	limit/base	current	history1	history2	
Color Color							

Bottom



Report Id: CARDOD [WUSCAR] 06133386 (Generated: 04/01/2024 20:33:08) Rev: 1

Certificate L2367

Laboratory

Sample No.

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

Contact/Location: SERVICE MANAGER - CARDOD

F: