

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Rating Trend

limit/base

current

history1

WATER

history2



method

Pump Fluid USPI VAC 100 (--- GAL)

DIAGNOSIS

Component

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a light concentration of water present 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.

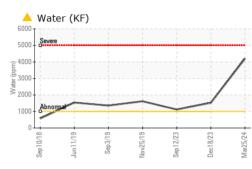
		methou	IIIII/Dase	current	TIStory	TISTOLY2
Sample Number		Client Info		USPM36952	USPM31801	USPM29690
Sample Date		Client Info		25 Mar 2024	18 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
		mothod	limit/base	ourroat	biotomut	biotom/0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	<1	0
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	0	0
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	1800	794	766	554
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	0	5
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>60	2	4	5
Sodium	ppm	ASTM D5185m	>00	0	<1	0
Potassium	ppm	ASTM D5185m	>20	0 <1	<1	2
Water	ppm %	ASTM D518511		< 1 <u> </u>	< 0.152	∠ 0.111
ppm Water	ppm	ASTM D0304 ASTM D6304		▲ 4200	▲ 1524	▲ 1119.1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	894	▲ 27768	1660
Particles >6µm		ASTM D7647		253	▲ 3426	367
Particles >14µm		ASTM D7647	>160	22	21	20
Particles >21µm		ASTM D7647	>40	7	6	5
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	2 2/19/12	18/16/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.07	0.07	0.159
.05.07\ David	- 0		0			

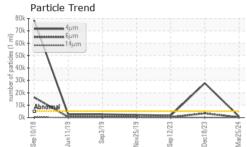
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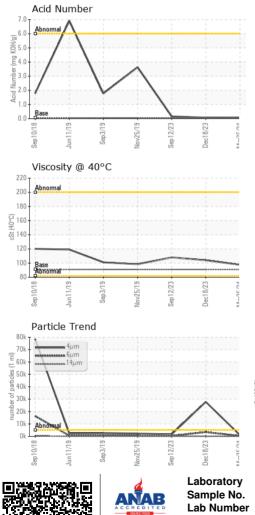
Contact/Location: SERVICE MANAGER - CARDOD



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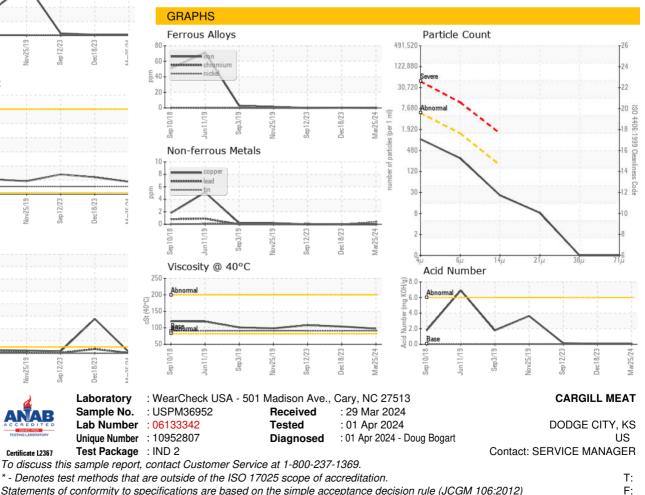






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 HAZY	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	97.5	104	108
SAMPLE IMAGES m		method	limit/base	current	history1	history2
Color					•	

Bottom



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