

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id LINE 21 TOP (NORTH) (S/N CHM120400536) Component Vacuum Pump

Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

A 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

There is a high amount of particulates present in the oil.

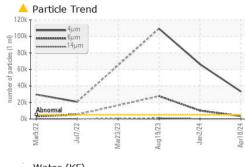
Fluid Condition

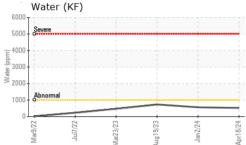
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

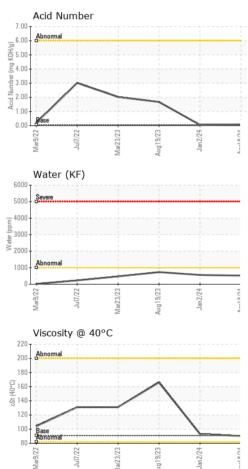
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36772	USPM31740	USPM29291
Sample Date		Client Info		18 Apr 2024	02 Jan 2024	19 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	2	7 2
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>20	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm		0	0	0	3
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	2
Calcium	ppm	ASTM D5185m		0	1	3
Phosphorus		ASTM D5185m	1800	912	817	1142
Zinc	ppm	ASTM D5185m		0	0	4
Zinc Sulfur	ppm			-		4
	ppm	ASTM D5185m	0	98	0	_
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	14	10	2
Sodium	ppm	ASTM D5185m		3	2	5
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304		0.051	0.056	0.073
ppm Water	ppm	ASTM D6304	>1000	519	563	733.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 33165	▲ 66376	▲ 109409
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 10119	<u> </u>
Particles >14µm		ASTM D7647	>160	<mark> </mark> 229	136	🔺 1145
		ASTM D7647	>40	63	42	🔺 215
Particles >21µm		ASTM D7647	>10	2	5	1 2
Particles >38µm		ASTM D7647	>3	1	1	1
Particles >38µm Particles >71µm			>3 >19/17/14	1 22/19/15	1 2 3/21/14	1
Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADA		ASTM D7647				



OIL ANALYSIS REPORT

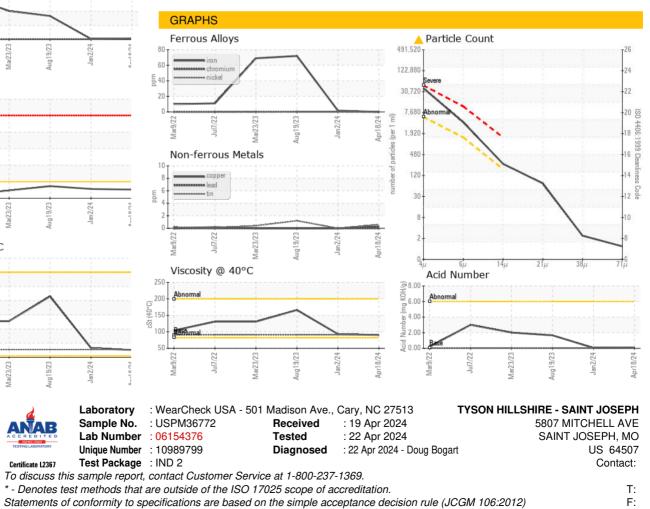






S

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	LIGHT	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	90.3	93.2	166
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		
Bottom						



Report Id: TYSSAI [WUSCAR] 06154376 (Generated: 04/23/2024 15:26:37) Rev: 1

Contact/Location: ? ? - TYSSAI Page 2 of 2