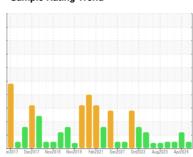


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



BUSCH VM8 / VP-3

Component Pump

USPI VAC 100 (--- GAL)

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.

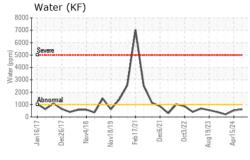
Fluid Condition

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

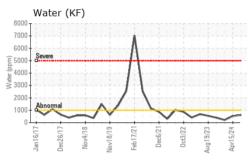
m2017 Dm2017 New2018 New2019 Feb2021 Dm2021 Oct0222 Aug2023 Apr2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37600	USP0006787	USPM30300
Sample Date		Client Info		09 Jun 2024	15 Apr 2024	28 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	1	0
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	<1	2
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	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	<1	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	3	<1
Phosphorus	ppm	ASTM D5185m	1800	771	1047	754
Zinc	ppm	ASTM D5185m	0	0	0	8
Sulfur	ppm	ASTM D5185m	0	0	0	3
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	8	9	2
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>.1	0.061	0.052	0.021
ppm Water	ppm	ASTM D6304	>1000	614	529	211
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1289	9486	2452
Particles >6µm		ASTM D7647	>1300	341	1436	920
Particles >14µm		ASTM D7647	>160	39	80	65
Particles >21µm		ASTM D7647	>40	14	14	12
Particles >38µm		ASTM D7647	>10	5	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/12	0 20/18/13	18/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.29	0.30	0.20

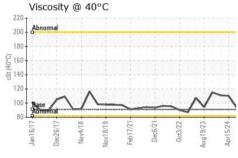


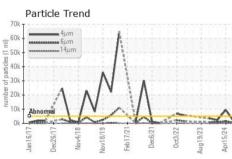
OIL ANALYSIS REPORT



70k	4/	ım						
10k - Abo	14	μm						
5 30k			N	-	٨			
0	ormal	1	V.					A
Ok THERE	100	Nov4/18	Nov18/19		-3-	0ct3/22	Aug19/23	Apr15/24







VISUAL		method				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
ELLID DDODEDT	150		11 11 11			

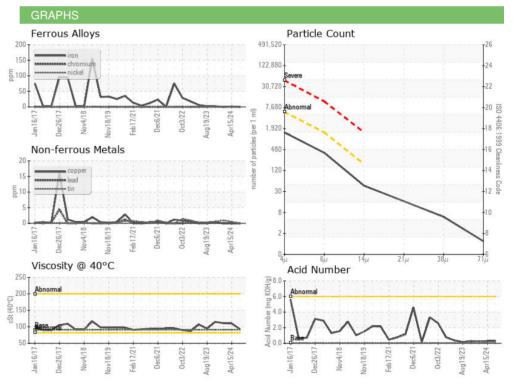
FLUID PROPER	HES	method			history1	history2
Visc @ 40°C	cSt	ASTM D445	91	93.0	110	111

SAMPLE IMAGES	method			
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Color











Certificate 12367

Laboratory Sample No. : USPM37600 Lab Number : 06205496 Unique Number : 11072957

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024 **Tested** : 12 Jun 2024

> Diagnosed : 12 Jun 2024 - Doug Bogart

TYSON-DAKOTA CITY-PRO

P.O. BOX 515 DAKOTA CITY, NE US 68731

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (605)235-2960