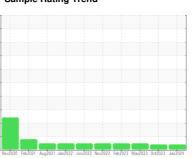


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



21 BUSCH L-2 STG-1 (S/N 5600170)

Component

Pump Fluid

USPI VAC 100 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

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.

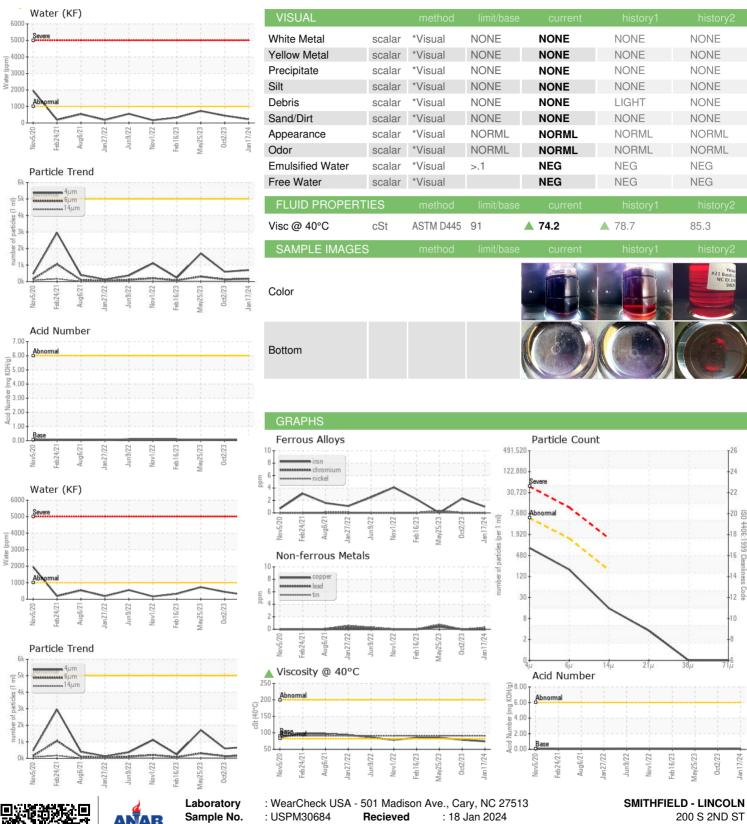
▲ Fluid Condition

The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

	Nov2020 Feb2021 Aug/021 Jan2022 Jun2022 Nov2022 Feb2023 May2023 Ge2023 Jan2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM30684	USPM29830	USPM28312
Sample Date		Client Info		17 Jan 2024	02 Oct 2023	25 May 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				ATTENTION	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	1	2	0
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>7	0	<1	1
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m	>30	0	0	<1
Tin	ppm	ASTM D5185m	>9	<1	0	<1
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	2	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	4
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	1800	796	755	745
Zinc	ppm	ASTM D5185m	0	0	<1	0
Sulfur	ppm	ASTM D5185m	0	0	49	58
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	25	22	7
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>.1	0.022	0.044	0.073
ppm Water	ppm	ASTM D6304	>1000	228	444.5	730.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	697	593	1702
Particles >6µm		ASTM D7647	>1300	167	129	303
Particles >14μm		ASTM D7647	>160	13	10	14
Particles >21µm		ASTM D7647	>40	3	3	4
Particles >38μm		ASTM D7647	>10	0	0	1
Particles >71μm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	16/14/10	18/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.089	0.078	0.05



OIL ANALYSIS REPORT







Certificate L2367

Lab Number **Unique Number** Test Package

: 06064391

: 10835773 : IND 2

Diagnosed

: 22 Jan 2024 Diagnostician : Doug Bogart

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) LINCOLN, NE US 68508

Contact: Service Manager

T: F: