

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



BUSCH CV8 NORTH EXP CV SECOND TOP (S/N PK0529-M1305 C/B)

Component

Vacuum Pump

USPI VAC 100 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

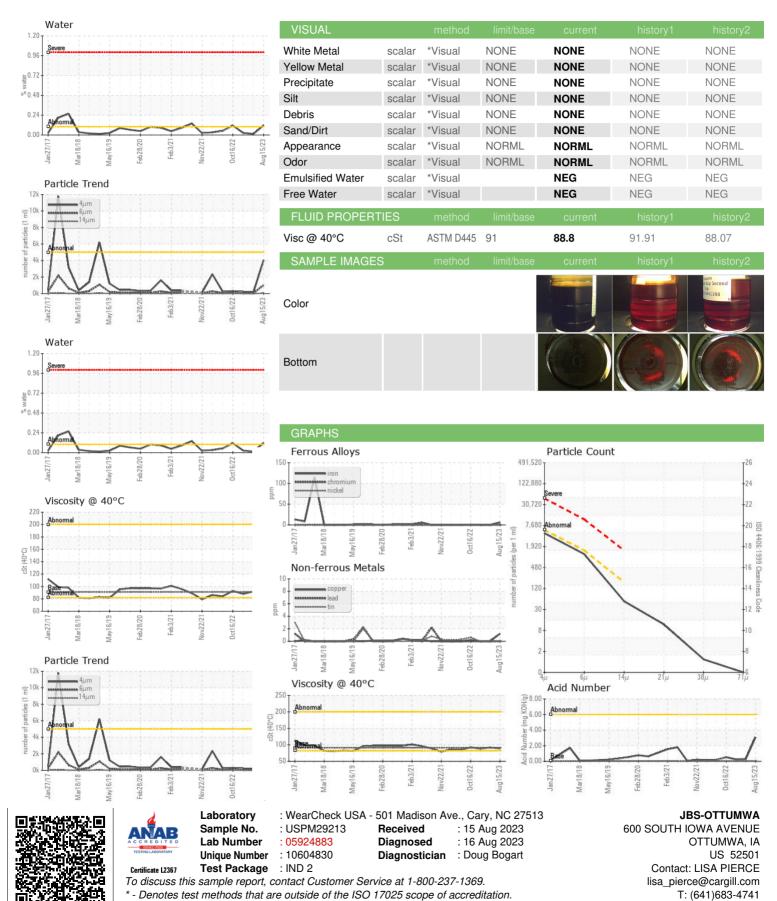
Fluid Condition

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

		an 2017 Mar	2018 May2019 Feb202	20 Feb 2021 Nov2021 Oct20	122 Aug 207	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29213	USPM28710	USPM26191
Sample Date		Client Info		15 Aug 2023	20 Apr 2023	12 Jan 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	0	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	1	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
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	2	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	2	1	0
Calcium	ppm	ASTM D5185m	0	7	1	0
Phosphorus	ppm	ASTM D5185m	1800	1393	665	931
Zinc	ppm	ASTM D5185m	0	331	40	40
Sulfur	ppm	ASTM D5185m	0	0	18	16
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	9	6	8
Sodium	ppm	ASTM D5185m		12	11	9
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304		0.117	0.014	0.025
ppm Water	ppm	ASTM D6304	>.1	1179.4	142.8	256.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4049	150	223
Particles >6µm		ASTM D7647	>1300	1020	40	63
Particles >14µm		ASTM D7647	>160	46	5	6
Particles >21µm		ASTM D7647	>40	10	1	2
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	14/12/10	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	3.09	0.29	0.26



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

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