

OIL ANALYSIS REPORT

Sample Rating Trend



WM-3-VPPA (S/N UO72203599)

Component

USPI VAC 100 (--- GAL)

Pump Fluid

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

		lar2017 Deci	017 Oct2018 Aug201	9 Oct2020 Feb2022 Dec20	DZZ Aug20:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29458	USPM28123	USPM25486
Sample Date		Client Info		29 Aug 2023	21 May 2023	29 Dec 2022
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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	5	0	5
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>7	1	0	0
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m	>30	1	0	<1
Tin	ppm	ASTM D5185m	>9	0	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	3
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	<1	<1	<1
Calcium	ppm	ASTM D5185m	0	1	0	0
Phosphorus	ppm	ASTM D5185m	1800	701	778	788
Zinc	ppm	ASTM D5185m	0	7	0	0
Sulfur	ppm	ASTM D5185m	0	39	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	19	13	17
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304		0.076	0.045	0.029
ppm Water	ppm	ASTM D6304	>.1	762.0	451.8	295.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1286	499	△ 64103
Particles >6µm		ASTM D7647	>1300	323	173	▲ 13684
Particles >14µm		ASTM D7647	>160	10	27	<u>^</u> 202
Particles >21µm		ASTM D7647	>40	2	11	35
Particles >38μm		ASTM D7647	>10	0	0	6
Particles >71μm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/10	16/15/12	△ 23/21/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

0.18

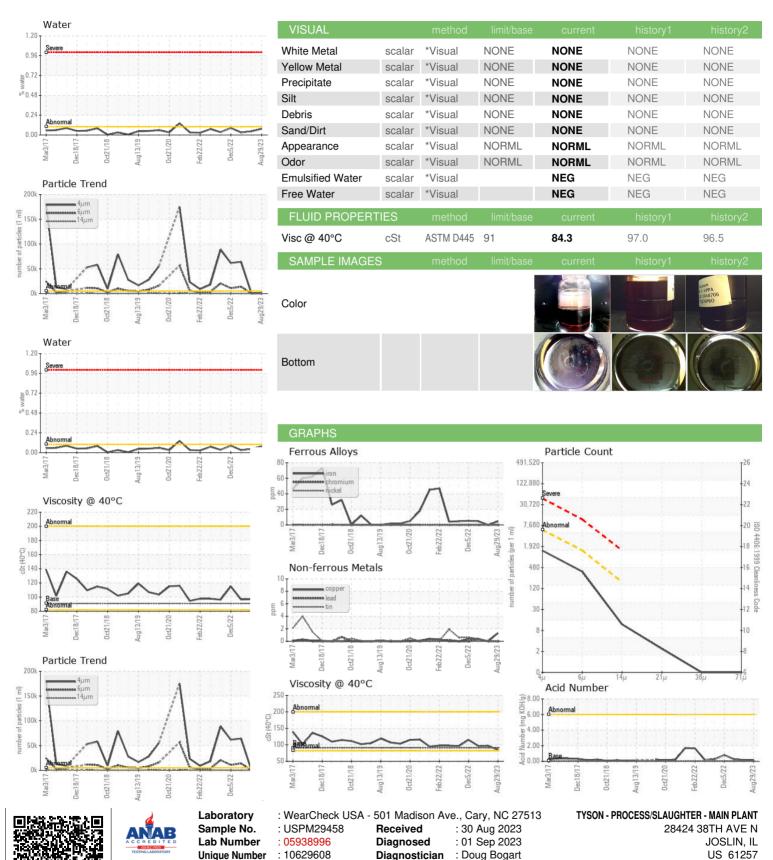
0.16

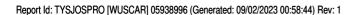
mg KOH/g ASTM D8045 0.05

0.272



OIL ANALYSIS REPORT





Certificate L2367

Test Package

: IND 2

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)

T:

Contact: RICK DUVALL

F: (402)423-6661