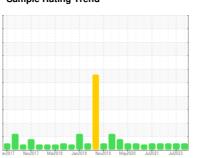


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



VAC LL-2 (S/N F13093U96127)

Pump Fluid

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.

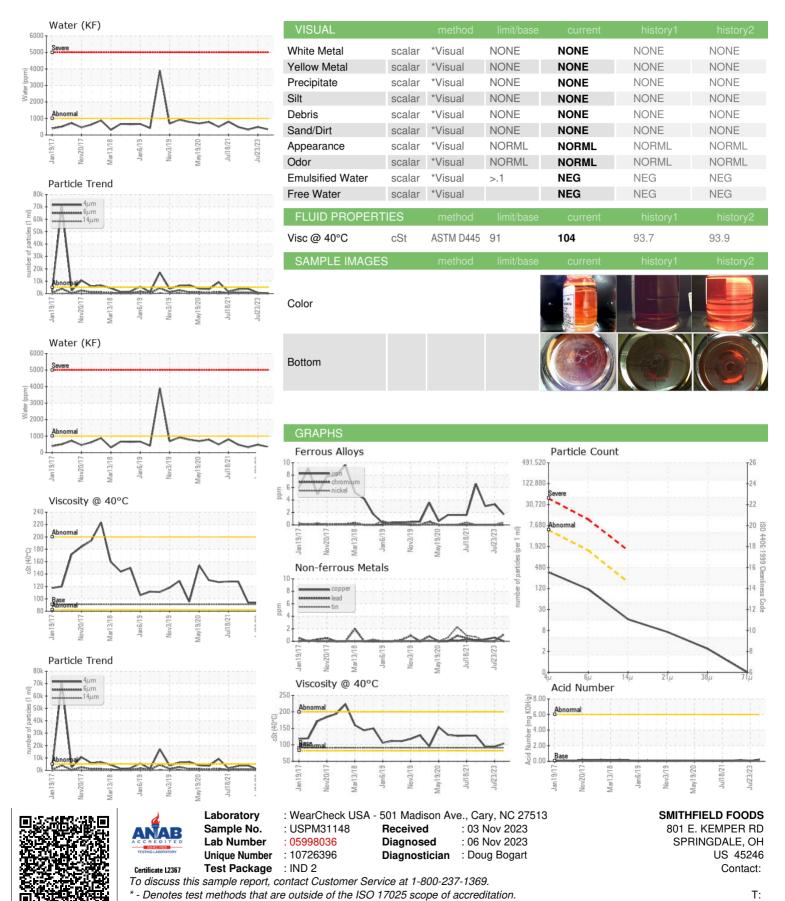
Fluid Condition

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

m2017 hex/2017 Mm2018 Jam2018 Mmy02019 Mmy020 Jau2021 Jau2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31148	USPM5905506	USPM28625
Sample Date		Client Info		02 Nov 2023	23 Jul 2023	14 Apr 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	>90	2	3	3
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	1	2
Lead	ppm	ASTM D5185m	>12	1	0	0
Copper	ppm	ASTM D5185m	>30	0	<1	<1
Tin	ppm	ASTM D5185m	>9	1	0	0
Antimony	ppm	ASTM D5185m				
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	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	0	1
Calcium	ppm	ASTM D5185m	0	3	0	2
Phosphorus	ppm	ASTM D5185m	1800	858	941	769
Zinc	ppm	ASTM D5185m	0	3	0	<1
Sulfur	ppm	ASTM D5185m	0	49	73	120
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	5	7	4
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>.1	0.034	0.048	0.032
ppm Water	ppm	ASTM D6304	>1000	343.0	489.2	321.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	312	654	3809
Particles >6µm		ASTM D7647	>1300	101	122	802
Particles >14μm		ASTM D7647	>160	14	9	38
Particles >21µm		ASTM D7647	>40	6	3	8
Particles >38μm		ASTM D7647	>10	2	1	3
Particles >71μm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/14/11	17/14/10	19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩∐/a	VSTM D804E	0.05	0.24	0.060	0.10



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

F: