

OIL ANALYSIS REPORT

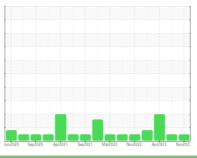
Sample Rating Trend



^{Machine Id} 2 - BIH L5 - 2 (S/N U125211696)

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

		Jun2020 Sep	2020 Apr2021 Sep203	1 Mar2022 Nov2022 Apr20	23 Nov202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31180	USPM29102	USPM28746
Sample Date		Client Info		06 Nov 2023	01 Aug 2023	26 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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	2	8	15
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>9	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	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	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	890	1087	1246
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	11	0	17
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	6	6	9
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>.1	0.041	0.048	0.039
ppm Water	ppm	ASTM D6304		414.6	487.7	398.3
FLUID CLEANLIN	IESS _	method	limit/base	current	history1	history2
FLUID CLEANLIN Particles >4µm	IESS	method ASTM D7647	limit/base >5000	current 455	history1 2546	history2 43837
	IESS		>5000			•
Particles >4µm	IESS	ASTM D7647	>5000	455	2546	▲ 43837
Particles >4μm Particles >6μm	IESS	ASTM D7647 ASTM D7647	>5000 >1300 >160	455 154	2546 764	▲ 43837 ▲ 11028
Particles >4μm Particles >6μm Particles >14μm	IESS	ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160	455 154 19	2546 764 59	▲ 43837 ▲ 11028 ▲ 888
Particles >4µm Particles >6µm Particles >14µm Particles >21µm	IESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40	455 154 19 6	2546 764 59 15	▲ 43837 ▲ 11028 ▲ 888 ▲ 138
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	IESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	455 154 19 6 1	2546 764 59 15 2	▲ 43837 ▲ 11028 ▲ 888 ▲ 138
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10 >3	455 154 19 6 1	2546 764 59 15 2	▲ 43837 ▲ 11028 ▲ 888 ▲ 138 2 0



OIL ANALYSIS REPORT

