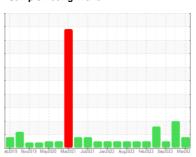


OIL ANALYSIS REPORT

Sample Rating Trend





L-5 1ST C-5170

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

Additive levels indicate the addition of a different brand, or type of oil. Additives confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

eb_2019						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36878	USPM31611	USPM29564
Sample Date		Client Info		19 Mar 2024	24 Dec 2023	12 Sep 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	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	12	1
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m	>30	0	0	0
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	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	7	0	3
Calcium	ppm	ASTM D5185m	0	0	<1	<1
Phosphorus	ppm	ASTM D5185m	1800	431	1527	1436
Zinc	ppm	ASTM D5185m	0	6	0	0
Sulfur	ppm	ASTM D5185m	0	6 9	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	4	<1	1
Sodium	ppm	ASTM D5185m		5	0	0
Potassium	ppm	ASTM D5185m	>20	11	0	2
Water	%	ASTM D6304	>.1	0.006	0.043	0.075
ppm Water	ppm	ASTM D6304	>1000	70	434	753.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1140	▲ 133378	505
Particles >6µm		ASTM D7647	>1300	324	<u>▲</u> 53163	87
Particles >14µm		ASTM D7647	>160	34	<u> </u>	15
Particles >21µm		ASTM D7647	>40	11	<u></u> 156	6
Particles >38µm		ASTM D7647	>10	2	3	2
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/12	4 24/23/17	16/14/11
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
A si al Niversia au (ANI)	I/OII/-	ACTM DOOM	0.05	0.060	0.10	0.17

Acid Number (AN)

0.18

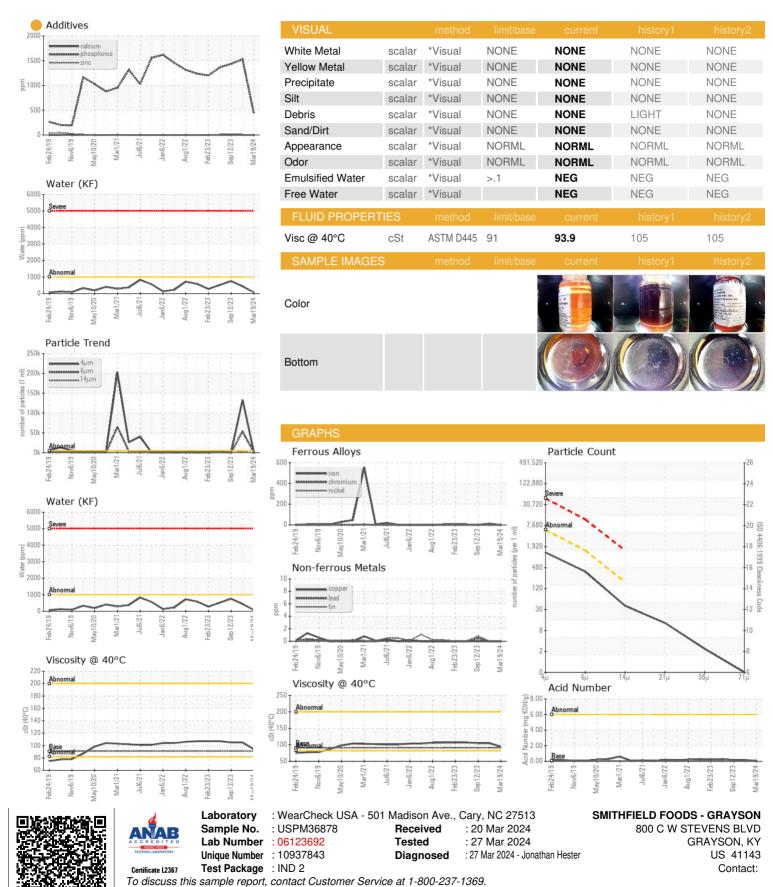
0.062

mg KOH/g ASTM D8045 0.05

0.17



OIL ANALYSIS REPORT



* - 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: F: