

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 7S (S/N U203600104) Component

Vacuum 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.

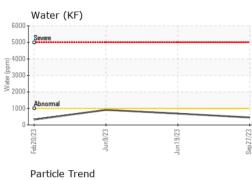
		Feb202	3 Jun2023	Jun2023 \$	Sep2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29815	USPM28208	USP227719
Sample Date		Client Info		27 Sep 2023	19 Jun 2023	09 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		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	1	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>20	ء <1	<1	<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	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	2
Phosphorus	ppm	ASTM D5185m	1800	1176	1188	1187
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	7	12
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	8	7	7
Sodium	ppm	ASTM D5185m	210	0	0	0
Potassium		ASTM D5185m	>20	۰ <1	0	<1
Water	ppm %	ASTM D5185III		< 1 0.045	0.068	0.091
ppm Water	ppm	ASTM D0304 ASTM D6304	>1000	455.5	689.4	914.5
FLUID CLEANLIN		method	limit/base	current	history1	history2
				348		
Particles >4µm Particles >6µm		ASTM D7647	>5000		958	506
		ASTM D7647		100	284	165
Particles >14µm		ASTM D7647	>160	9	16	13
Particles >21µm		ASTM D7647		3	3	2
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/10	17/15/11	16/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.58	0.25	0.31

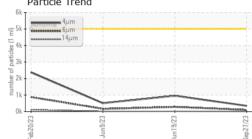
Report Id: CARFORCOL [WUSCAR] 05966391 (Generated: 10/05/2023 03:25:19) Rev: 1

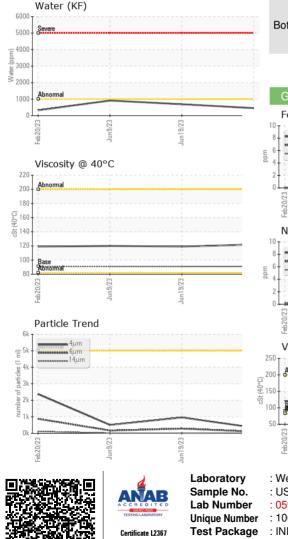
Contact/Location: JOE ROSENFIELD - CARFORCOL



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	122	119	120
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom

