

## Machine Id **220606 - SUBURBAN PROPANE** Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- QTS)

## RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.



All component wear rates are normal.

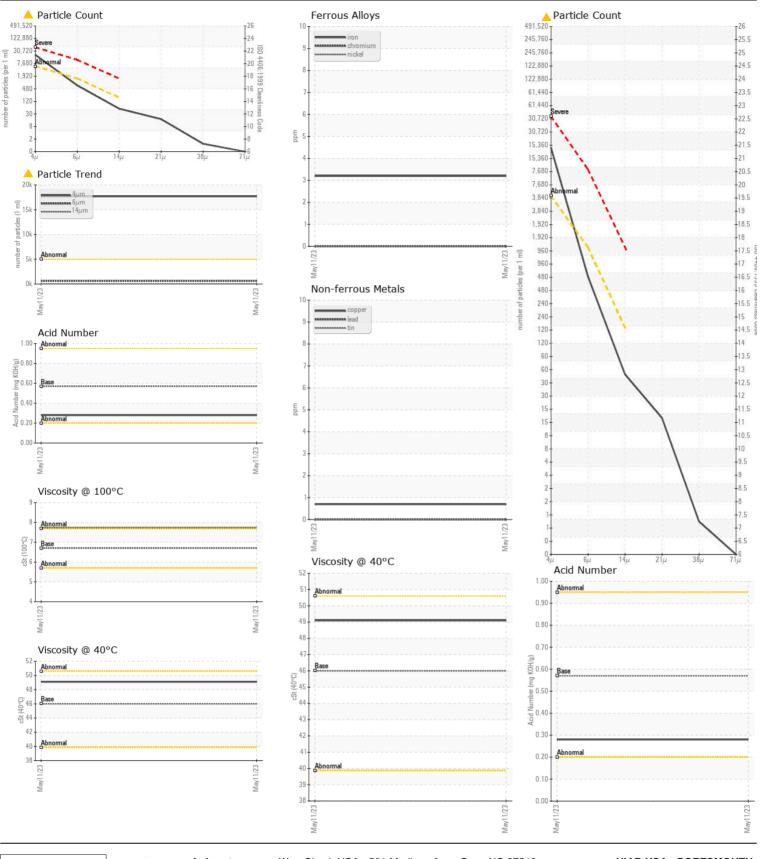
## CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

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<b>FLUI</b>	<b>ON</b>	DITI	ON
LUI			

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0741591		
Sample Date		Client Info		11 May 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		1		
Filter Age	yrs	Client Info		1		
Oil Changed	<b>)</b> -	Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
	Jouran	violal	NONL			
Silicon	ppm	ASTM D5185m	>20	1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	<b>17688</b>		
Particles >6µm		ASTM D7647	>1300	608		
Particles >14µm		ASTM D7647	>160	47		
Particles >21µm		ASTM D7647	>40	15		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/16/13		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water		*Visual	>0.1	NEG		
	Jouran	violal	20.1			
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	4		
Calcium	ppm	ASTM D5185m	200	67		
Phosphorus	ppm	ASTM D5185m	300	316		
Zinc	ppm	ASTM D5185m	370	406		
Sulfur	ppm	ASTM D5185m	2500	1508		
Acid Number (AN)	mg KOH/g	ASTM D3103III	0.57	0.28		
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	46	49.1		
Visc @ 40 C Visc @ 100°C	cSt	ASTM D445 ASTM D445	40 6.7	7.72		
Viscosity Index (VI)		ASTM D445 ASTM D2270	97	123		
viscosity muex (VI)	Scale	ASTIVI DZZ/U	97	123		



Contact/Location: THOMAS ASBELL - CARPORVA

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