

# TODAYS CAR WASH 1 - FORT HOOD ST KILLEEN Machine Id 1-5-PP

Component 5 Hydraulic Power Pack Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

#### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

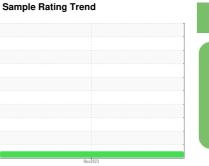
All component wear rates are normal.

#### 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.



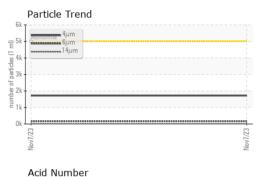


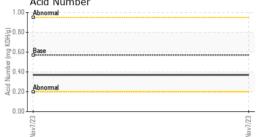
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877669		
Sample Date		Client Info		07 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	0		
Calcium	ppm	ASTM D5185m	200	29		
Phosphorus	ppm	ASTM D5185m	300	277		
Zinc	ppm	ASTM D5185m	370	346		
Sulfur	ppm	ASTM D5185m	2500	987		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1719		
Particles >6µm		ASTM D7647	>1300	164		
Particles >14µm		ASTM D7647	>160	15		
Particles >21µm		ASTM D7647	>40	6		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.37		

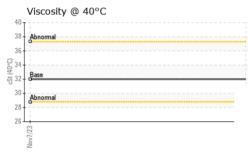
# NORMAL

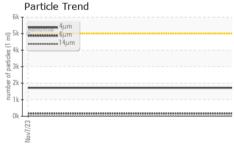


# **OIL ANALYSIS REPORT**









	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Nov7/23 -	Appearance	scalar	*Visual	NORML	NORML		
Nov	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	32	32.0		
	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Nov7/23	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	10 iron			491,520	I		1 <sup>26</sup>
	o tanana chromium			122,880	-		-24
	4 4			30,720	Severe		-22
	2						
	0				Abnormal		-20 8
	Nov7/23			Nov7/23 . (per 1 ml)		•	-18 4406
				es .		Ť.	-20 150 4406:1999 Obeahiness Gode
	Non-ferrous Metal	s 		pilled jo			Clean
	8 - copper						-14 Bg
1	6 - tim			2 30			-12 e
2	* · · · · · · · · · · · · · · · · · · ·						
	2			8	İ		-10
	Nov7/23			Nov7/23	+		-8
	Nov			No.			
	Viscosity @ 40°C			2 0	ہوں۔ Acid Number	14μ 21μ	38µ 71µ
	40 Abnormal			€ 1.00			
	-			50.80			
4 (40°	5 35 - Base Base 3 30 - Abnormal			0.60 <u>ق</u>	L base		
ę	<sup>3 30</sup> Abnormal			0.00 0.80 0.00 K0H/0 0.40 0.40 0.20 0.20	Abnormal		
	25						
	Nov7/23			Nov7/23	Nov7/23		Nov7/23
	No			No	NG		No
Laboratory Sample No. Lab Number Unique Number Test Package	: 06006299	Receive Diagnos Diagnos	d: 13   ed: 14	Nov 2023 Nov 2023 ug Bogart	}	514 S FT H	

Test Package : PLANT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. howards@todayscarwash.com \* - 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)

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