

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

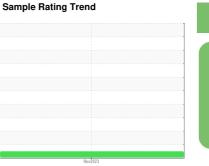
All component wear rates are normal.

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.



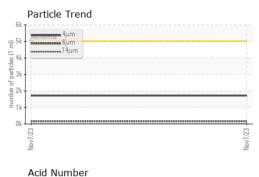


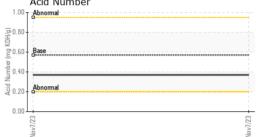
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877669		
Sample Date		Client Info		07 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	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		

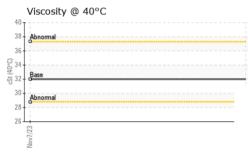
NORMAL

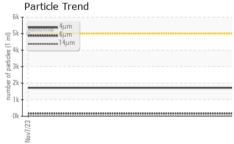


OIL ANALYSIS REPORT









	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 ²⁶
	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	^{3 30} 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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