

OIL ANALYSIS REPORT



WS281308B

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 68 (--- QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

🔺 Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

				Jan2024		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0576602		
Sample Date		Client Info		09 Jan 2024		
Machine Age	hrs	Client Info		98		
-	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<u> </u>		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	>10	2		
	ppm	ASTM D5185m	>10	0		
-	ppm	ASTM D5185m		18		
	ppm	ASTM D5185m	>10	0		
	ppm	ASTM D5185m	~10	0		
	ppm	ASTM D5185m		0		
	ррпп			-		
ADDITIVES		method	limit/base	current	history1	history2
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	66		
Calcium	ppm	ASTM D5185m	200	25		
Phosphorus	ppm	ASTM D5185m	300	328		
	ppm	ASTM D5185m	370	347		
- ···	ppm	ASTM D5185m	2500	1077		
CONTAMINANTS		method	limit/base	current	history1	history2
					Thistory	Thistory2
	ppm	ASTM D5185m	>20	2		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	>20	2		
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	A 13604		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	A 30		
Particles >71µm		ASTM D7647	>3	2		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 25/24/21		
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.38		
				0 1 1/1 1		

Report Id: CARCOR [WUSCAR] 06060219 (Generated: 01/16/2024 18:26:46) Rev: 1

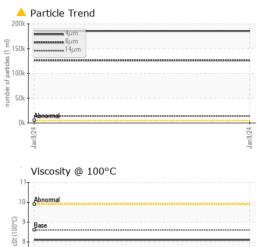
Contact/Location: JOHN MORRIS - CARCOR

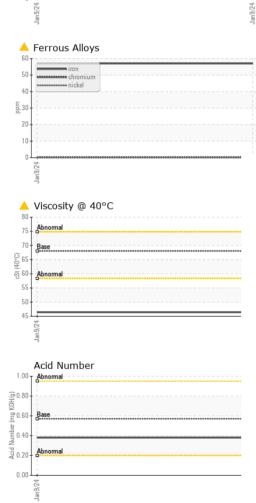


Abnormal

回論

OIL ANALYSIS REPORT





	VISUAL		method	limit/base	e 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		
Jan 9,24	Appearance	scalar	*Visual	NORML	NORML		
<u>ر</u>	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	TIES	method	limit/base	e current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	68	46.4		
	Visc @ 100°C	cSt	ASTM D445	8.6	8.1		
	Viscosity Index (VI)	Scale	ASTM D2270	96	148		
	- SAMPLE IMAGES	S	method	limit/base	e current	history1	history
Jan 9,24	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys 60 T			<u> </u>	A Particle Count		T
	iron						
	40			122,0	Severe		-2
	20 -			30,7	720		-2
	0			- 7.0	680 Abnormal		-2
	Jan 9/24			Jan9/24 . (per 1 ml)	920		
	D D			Jan9/24 number of particles (per 1 ml)	520-		T.
	Non-ferrous Metal	s		partic	480		-1
	20 15			ber of	120-		
	E 10.			unu	30-		$\langle \rangle$
	8 10				· · · · · · · · · · · · · · · · · · ·		
	5-				8-		
	dan 9/24			Jan9/24	2-		
	Jan			Jan	0		
	▲ Viscosity @ 40°C				⁴ نہ قبر Acid Number	14μ 21μ	38µ 71µ
	80 Abnormal			₽1	.00 T Abnormal		
	70 Base			ž,	.80		
	0,00 Abnormal			Ĕ0	1.60 - Base		
	형 50 -			Que de la composición de la co	Acto Miniber Acto Miniber 1.80 1.		
	40				0.00 L		
	Jan 9/24			Jan9/24 .	Jan 9/24 -		
Laboratory	: WearCheck USA - 5	501 Madis Recieved				HIAB USA - 18627 ST	

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JOHN MORRIS - CARCOR

F: (704)895-4801