

OIL ANALYSIS REPORT



Machine Id UN-1972 Component Hydraulic System Fluid BELRAY PREMIUM AW 46 (--- 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.

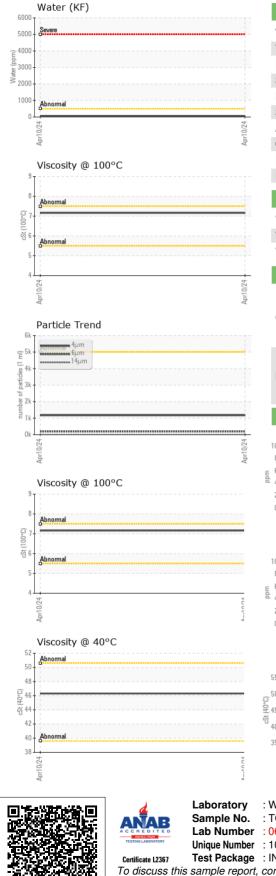
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002263		
Sample Date		Client Info		10 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
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	0		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		60		
Phosphorus	ppm	ASTM D5185m		284		
Zinc	ppm	ASTM D5185m		346		
Sulfur	ppm	ASTM D5185m		795		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	6		
Water	%	ASTM D6304	>0.05	0.004		
ppm Water	ppm	ASTM D6304		47		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1171		
Particles >6µm		ASTM D7647	>1300	195		
Particles >14µm		ASTM D7647	>160	11		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.29		
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	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		
/24	Appearance	scalar	*Visual	NORML	NORML		
Apr1 0/24	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual	, 0.00	NEG		
	FLUID PROPER	TIFS	method	limit/base	current	history1	history2
		cSt	ASTM D445	in the base	46.3		
	Visc @ 40°C						
	Visc @ 100°C	cSt	ASTM D445		7.16		
	Viscosity Index (VI)	Scale	ASTM D2270		114		
24	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
	Color				Interest	no image	no image
	Bottom					no image	no image
	GRAPHS						
2	Ferrous Alloys				Particle Count		
Apr1 0/24	10 8			491,520	I		1 ²⁶
Ar	enterent chromium			122,880			-24
	E 6 and the second seco			30,720	Severe		-22
	2						
	24 0			2 E 7,680	Abnormal		-20
	Apr10/24			April 0/24 480 1002 492 1002 480 1002		s	+20 +18 +16 +14
	Non-ferrous Meta	lc.		「 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			16
	¹⁰ T			of par		 Image: A set of the set of the	
	8 copper						-14
				B 30			-12
A CLA E	2						10
	0						T
	Apr10/24			Apr10/24	••••••		
				Apr 0	μ 6μ	14µ 21µ	38µ 71µ
	Viscosity @ 40°C				Acid Number	1.175 2.175	30µ 11µ
	55 Abnormal			() 0.30 20,24 20,18 4 0.12 20,00	T :		
	<u></u> 50			¥ 0.24	İ		
	50			- 0.10 0.12			
	³³ 40 Abnormal			N.06	-		
	35				L.		
ACC	Apr10/24			Apr10/24	Apr10/24		
المسل	As			A	A		
Laboratory Sample No. Lab Number Unique Number Test Package		HE	DIL COMPAN P.O. BOX 99 NDERSON, T US 7565 RON NILSSO				

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