

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id C-15 - 263552 Component **Hydraulic System** AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883590		
Sample Date		Client Info		17 Jan 2024		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed	yıo	Client Info		N/A		
Sample Status				NORMAL		
	_			-		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
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	1		
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	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	1		
Calcium	ppm	ASTM D5185m	200	23		
Phosphorus	ppm	ASTM D5185m	300	427		
Zinc	ppm	ASTM D5185m	370	559		
Sulfur	ppm	ASTM D5185m	2500	2161		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1772		
Particles >6µm		ASTM D7647	>1300	507		
Particles >14µm		ASTM D7647	>160	45		
Particles >21µm		ASTM D7647	>40	11		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.41		
1.10.00) Dovu 1				Contract/l.o.	AND OF CAN	

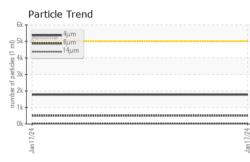
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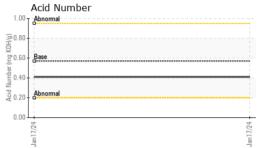
Contact/Location: JOE SANDERS - NIAERI

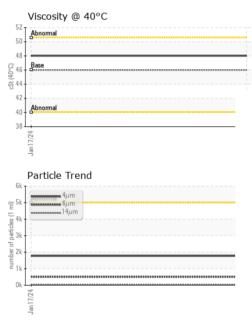


OIL ANALYSIS REPORT

VISUAL







	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris		*Visual	NONE	NONE		
	Sand/Dirt		*Visual	NONE	NONE		
24	Appearance		*Visual	NORML	NORML		
Jan 17/2 4	Odor		*Visual	NORML	NORML		
~							
	Emulsified Water		*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	46	48.0		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
- +2/1 ue f	Color				•	no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys			491,52	Particle Count		20
	iron			491,52	T		T ²⁶
	chromium			122,88	0 -		-24
				1	Severe		
	2			30,72	0		-22
	2			7,68	Abnormal		-20
	7/24 .			Jan 17/24 - s (per 1 ml) 56'1			
	Jan 17/24			1,92 Jan 1,92		•	-18
	Non-ferrous Meta	ls		2010 48			-16
	10 _T			of par			+20 +18 +16 +14
	8 - copper			Jan 17/24 Jan 17/24 36 particles (per 1 ml) 46	0		-14
	F 6+						-12
					0-		12
	2-				8-		-10
	0						
	Jan 17/24			Jan 17/24 .	2-		
	Jan			Jan	0		6
	Viscosity @ 40°C				^{4μ} 6μ Acid Number	14μ 21μ	38µ 71µ
	⁵⁵ T			1.0			
	50 - Abnormal			8.0 Kg	0 -		
	45 - Abaamal			0.0 (B/HO) 0.0 (B/HO) 0.0	0 - Base		
11	Abnormal			륕 0.4	0-		
	40 - Abnormal			Vanger Number No.2	0 - Abnormal		
	35						
	lan 17/24			Jan 17/24	Jan 17/24		
Laboratory Sample No. Lab Number Unique Number	: WearCheck USA - : WC0883590 : 06064284	501 Madis Recieved Diagnose Diagnosti	:18. d:19.		,	ARA PLASTIC 7090 F	

* - Denotes test methods th Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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