

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id ERS-0017-BL

Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with 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.

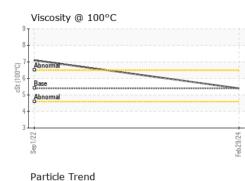
SAMPLE INFORM	ΛΑΤ <u>ΙΟΝ</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0679372	WC0658252	
Sample Date		Client Info		29 Feb 2024	01 Sep 2022	
Machine Age	hrs	Client Info		1433	0	
Oil Age	hrs	Client Info		1433	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>20	2	8	
Chromium	ppm ppm	ASTM D5185m		2 <1	0	
Nickel	ppm		>10	<1	0	
Titanium	ppm	ASTM D5185m	>10	<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	0	
Lead	ppm	ASTM D5185m	>10	2 <1	0	
Copper	ppm	ASTM D5185m	>75	1	1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	25	<1	<1	
Calcium	ppm	ASTM D5185m	200	10	45	
Phosphorus	ppm	ASTM D5185m	300	177	352	
Zinc	ppm	ASTM D5185m	370	225	452	
Sulfur	ppm	ASTM D5185m	2500	923	6803	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	1	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2879	1 6009	
Particles >6µm		ASTM D7647	>1300	471	752	
Particles >14µm		ASTM D7647	>160	23	15	
Particles >21µm		ASTM D7647	>40	3	3	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	▲ 21/17/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.11	0.36	
2:46:00) Rev: 1			(Contact/Location	n: JAMES BLAC	K - CARHIGMO

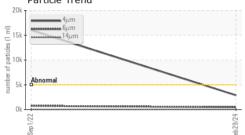
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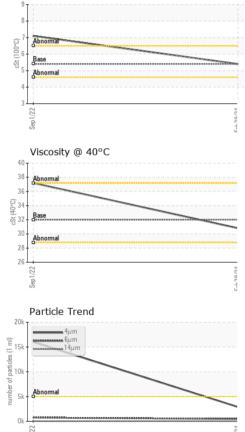


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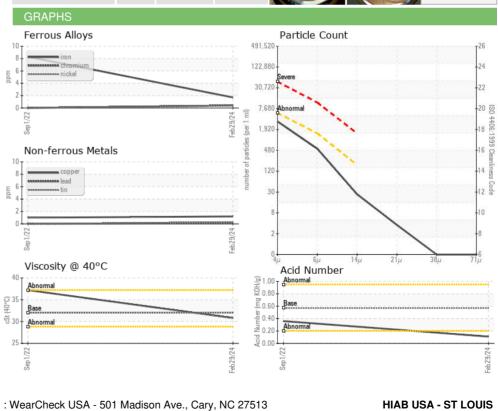


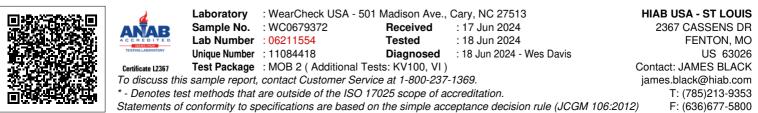




Sep1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	LIGHT	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	30.8	37.2	
Visc @ 100°C	cSt	ASTM D445	5.4	5.4	7.1	
Viscosity Index (VI)	Scale	ASTM D2270	102	109	156	
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
SAMPLE IMAGES	3	method	limit/base	current	history1	history2 no image
	5	method	limit/base	current	history1	
Color	8	method	limit/base	current	history1	no image
Color Bottom GRAPHS Ferrous Alloys	3	method		current		no image no image
Color Bottom GRAPHS Ferrous Alloys	3	method	491,520			no image no image
Color Bottom GRAPHS Ferrous Alloys	3	method				no image no image
Color Bottom GRAPHS Ferrous Alloys	3	method	491,520	Particle Count		no image no image
Color Bottom GRAPHS Ferrous Alloys		method	491,520- 122,880- 30,720	Particle Count		no image no image





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