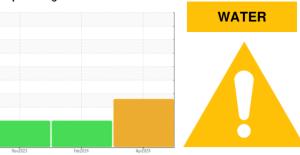


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

821HP01-A

Component Reservoir Hydraulic System KLUBER SUMMIT HYSYN FR 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

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		WC0842384	WC0773250	WC0842377
Sample Date		Client Info		17 Apr 2024	07 Feb 2024	08 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		24	17	20
Iron	ppm	ASTM D5185m	>20	1	3	2
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	2
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m	>20	۲ ۲	<1	<1
Tin	ppm	ASTM D5185m		231	233	230
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppin	method	line it /le e e e		-	
			limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	4	0
Phosphorus	ppm	ASTM D5185m		166	151	190
Zinc	ppm	ASTM D5185m		21	23	14
Sulfur	ppm	ASTM D5185m		821	600	813
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	6	4
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m	>20	3	<1	1
Water	%	ASTM D6304	>0.05	A 0.055	0.032	0.030
ppm Water	ppm	ASTM D6304	>500	<u> </u>	322	308
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	4909	1136	796
Particles >6µm		ASTM D7647	>160	<u> </u>	291	211
Particles >14µm		ASTM D7647	>20	<mark>/</mark> 68	9 19	27
Particles >21µm		ASTM D7647	>4	<u> </u>	6 5	9
Particles >38µm		ASTM D7647	>3	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/11	A 19/18/13	17/15/11	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.0	2.85	2.87	2.32
48:09) Rev: 1 Contact/Location: CHRISTOPHER JACKSON - FLAMONNO						

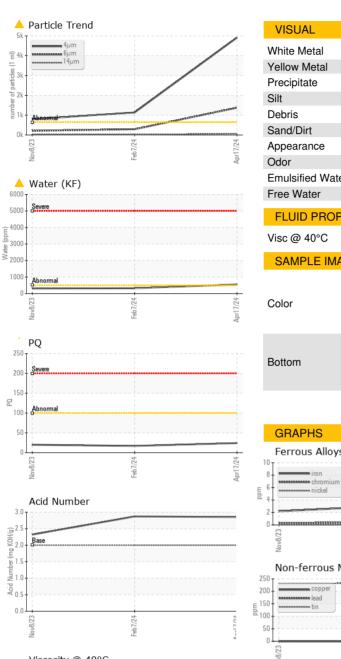
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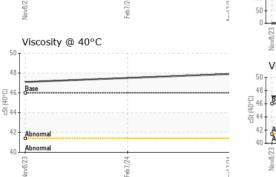
Contact/Location: CHRISTOPHER JACKSON - FLAMONNC



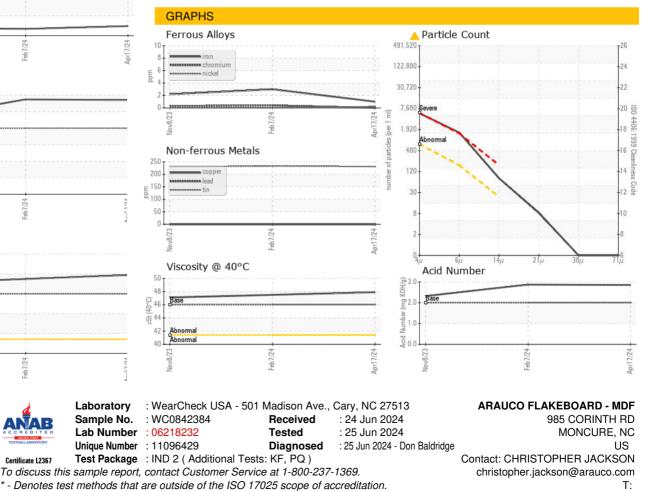
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OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.9	47.5	47.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		



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

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Certificate 12367

Contact/Location: CHRISTOPHER JACKSON - FLAMONNC

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