

OIL ANALYSIS REPORT

NORMAL

Machine Id

DENISON 400 HP Component Hydraulic System

APOLLO MULTIGUARD 46 (300 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

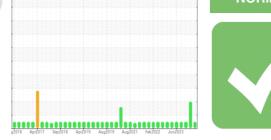
All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.



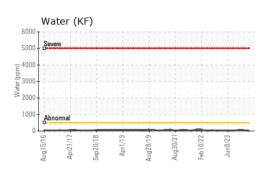


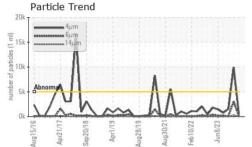
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST46247	ST46248	ST44528
Sample Date		Client Info		04 Jun 2024	17 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	22	18	24
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		1	3	1
Calcium	ppm	ASTM D5185m		47	47	44
Phosphorus	ppm	ASTM D5185m		344	353	364
Zinc	ppm	ASTM D5185m		414	437	445
Sulfur	ppm	ASTM D5185m		1080	897	1128
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>0.05	0.002	0.003	0.004
ppm Water	ppm	ASTM D6304	>500	16	38	47
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	522	9977	1526
Particles >6µm		ASTM D7647	>640	75	▲ 3048	98
Particles >14µm		ASTM D7647	>80	7	A 275	5
Particles >21µm		ASTM D7647	>20	3	<u> </u>	2
Particles >38µm		ASTM D7647	>4	0	3	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/16/13	16/13/10	▲ 20/19/15	18/14/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.447	0.32

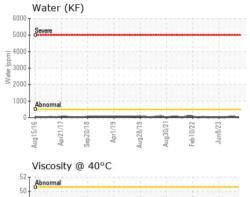
Contact/Location: NICK MCKINNON - FLUHIL Page 1 of 2



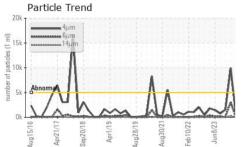
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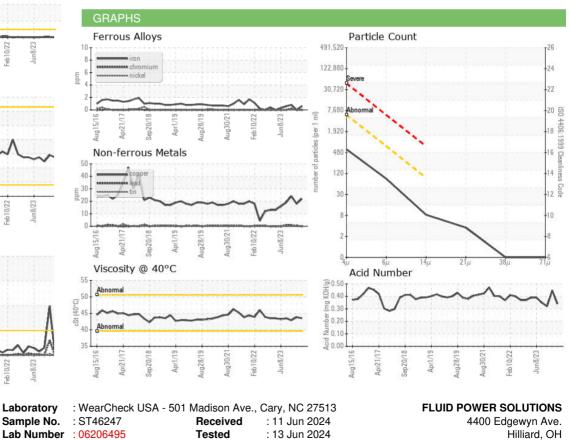








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		43.5	43.8	42.9
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•	•	•
Bottom						



: 13 Jun 2024 - Angela Borella



Unique Number : 11073956 Diagnosed Test Package : IND 2 (Additional Tests: KF) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (614)777-8640

Report Id: FLUHIL [WUSCAR] 06206495 (Generated: 06/13/2024 13:30:16) Rev: 1

Certificate 12367

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