

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id VF-102 Component Hydraulic System Fluid NAVI-GUARD PREMIUM AW-32 HYDRAULIC (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline for RULer.

Wear

All component wear rates are normal.

Contamination

MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

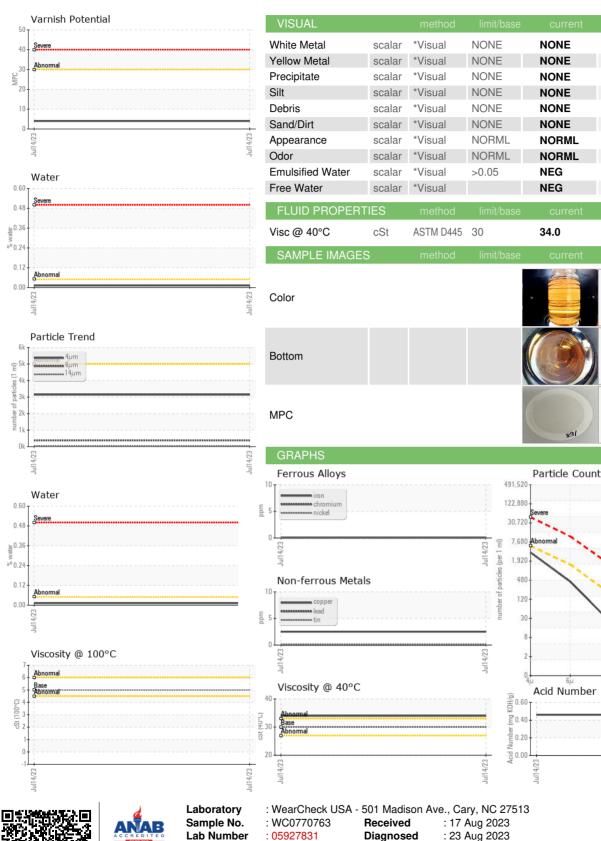
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0770763		
Sample Date		Client Info		14 Jul 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	2		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		14		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		9		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		109		
Calcium	ppm	ASTM D5185m		541		
Phosphorus	ppm	ASTM D5185m		311		
Zinc	ppm	ASTM D5185m		339		
Sulfur	ppm	ASTM D5185m		2472		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.05	0.012		
ppm Water	ppm	ASTM D6304	>500	127.5		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3144		
Particles >6µm		ASTM D7647	>1300	380		
Particles >14µm		ASTM D7647	>160	21		
Particles >21µm		ASTM D7647		6		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46		
MPC Varnish Potential	Scale	ASTM D7843		4		
7.56.39) Rov: 1			C (ntact/Location		

Report Id: MERDUR [WUSCAR] 05927831 (Generated: 08/23/2023 17:56:39) Rev: 1

Contact/Location: RICHARD SERGO - MERDUR



OIL ANALYSIS REPORT



MERCK & COMPANY 5325 OLD OXFORD RD DURHAM, NC US 27712 Contact: RICHARD SERGO richard.sergo@merck.com T: (919)630-5778 F:

Certificate L2367

Unique Number

: 10607778 Test Package : AOM 1 (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)

Contact/Location: RICHARD SERGO - MERDUR

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Diagnostician : Doug Bogart

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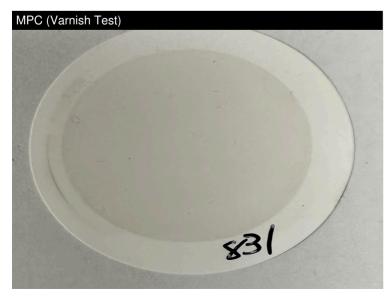
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