

OIL ANALYSIS REPORT

Sample Rating Trend



Area [53471780] Machine Id 102-LYO-903

Component Hydraulic System

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0770765	WC0789080	WC0789096
Sample Date		Client Info		07 Aug 2023	12 Jul 2023	17 May 2023
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		5	5	6
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		15	15	18
Calcium	ppm	ASTM D5185m		122	121	145
Phosphorus	ppm	ASTM D5185m		278	284	275
Zinc	ppm	ASTM D5185m		342	340	337
Sulfur	ppm	ASTM D5185m		3969	3946	3914
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	0.005		
ppm Water	ppm	ASTM D6304	>500	59.6		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2462	2289	1827
Particles >6µm		ASTM D7647	>1300	346	354	208
Particles >14µm		ASTM D7647	>160	21	19	12
Particles >21µm		ASTM D7647	>40	7	4	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	18/16/11	18/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.35	0.35
MPC Varnish Potential	Scale	ASTM D7843	>15	7		
7:52:04) Rev: 1		Contact/Location: Mark Montalvo - MERDUR				

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cSt (100°C)

Viscosity @ 100°C

OIL ANALYSIS REPORT

Viscosity @ 40°C

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Aug7/23

Laboratory

Sample No.

Lab Number

Unique Number

Abr 26

Mav1

: WC0770765

: 05927829

: 10607776

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)

*Visual

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ASTM D445

NONE

NONE

NONE

NONE

NONE

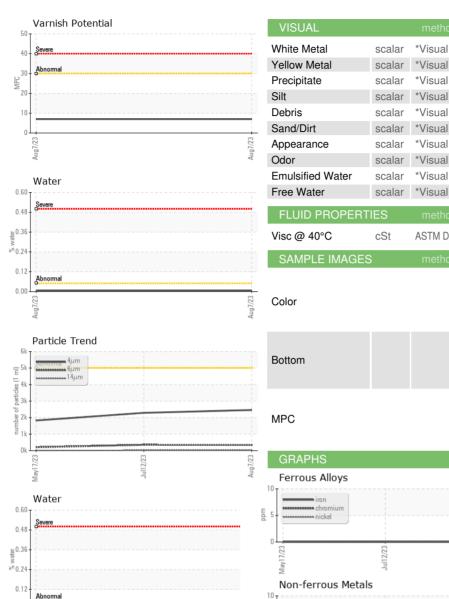
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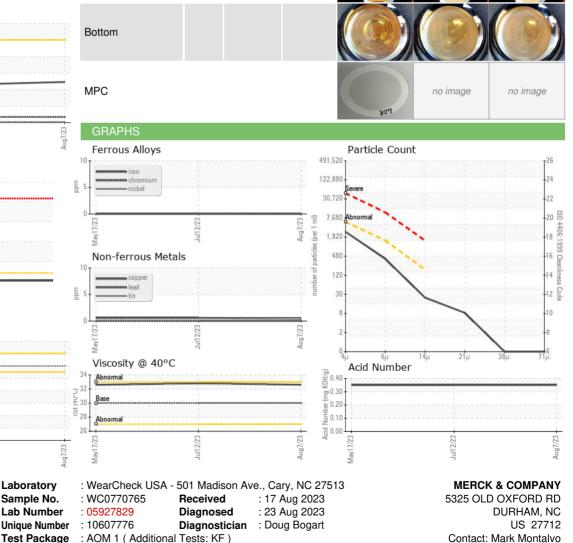
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NORML

>0.05

30





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

32.6

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

32.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

32.6

Report Id: MERDUR [WUSCAR] 05927829 (Generated: 08/23/2023 17:52:05) Rev: 1

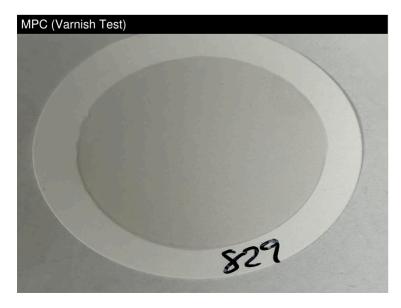
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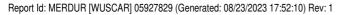
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