

OIL ANALYSIS REPORT

Frea [53471781] 102-LYO-904

Component

Hydraulic System

NAVI-GUARD PREMIUM AW-32 HYDRAUL

Sample Rating Trend



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.

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.

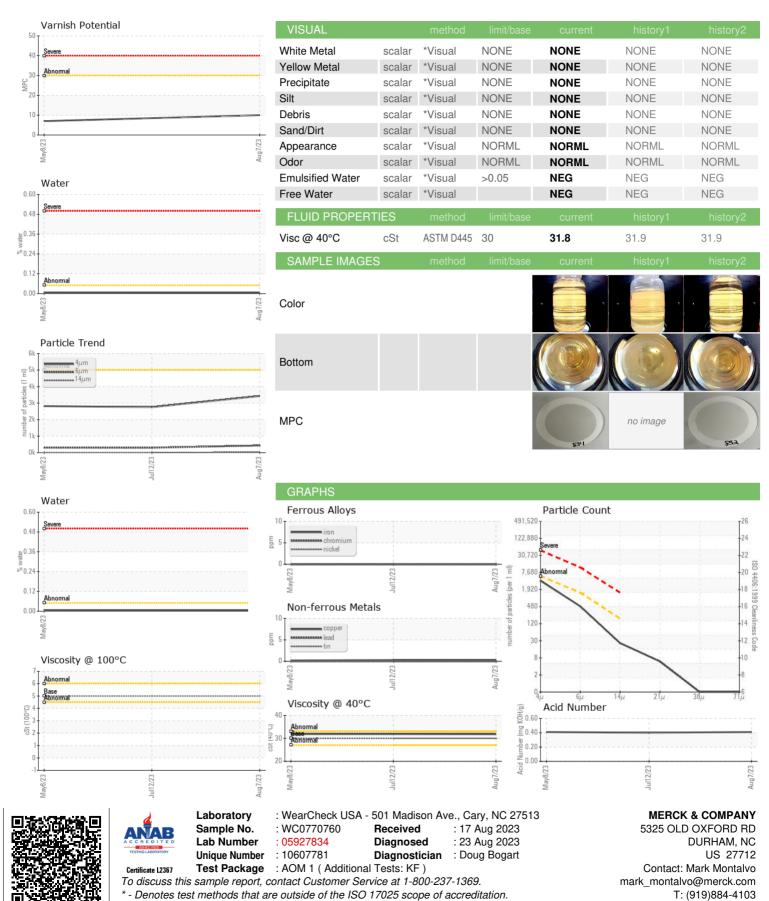
Fluid Condition

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

C (LTR)			y2023	Jul2023 Aug20	100	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	MATION		IIIIII/Dase			•
Sample Number		Client Info		WC0770760	WC0789081	WC0770762
Sample Date		Client Info		07 Aug 2023	12 Jul 2023	08 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	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	4
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		15	14	16
Calcium	ppm	ASTM D5185m		99	97	105
Phosphorus	ppm	ASTM D5185m		326	322	324
Zinc	ppm	ASTM D5185m		410	405	406
Sulfur	ppm	ASTM D5185m		5313	5290	5275
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	0.005		0.004
ppm Water	ppm	ASTM D6304	>500	55.7		42.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3427	2757	2819
Particles >6µm		ASTM D7647	>1300	432	297	306
Particles >14µm		ASTM D7647	>160	22	12	13
Particles >21µm		ASTM D7647	>40	5	3	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	19/15/11	19/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.40	0.41
MPC Varnish Potential	Scale	ASTM D7843	>15	10		7
vii O vaimoiri oleillai	Coale	7.0 TW D7043	710	10		1



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





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