

PROBLEM SUMMARY

Sample Rating Trend

ISO

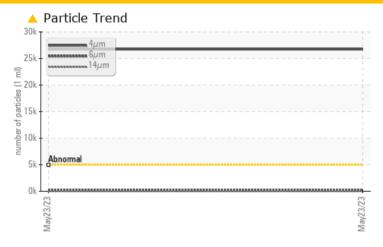
Machine Id **101-LYO-904**

Component

Hydraulic System

NAVI-GUARD PREMIUM AW-32 HYDRAULIC (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC T	EST RESULTS			
Sample Status			ABNORMAL	
Particles >4µm	ASTM D7647	>5000	^ 26724	
Oil Cleanliness	ISO 4406 (c)	\19/17/14	A 22/15/10	

Customer Id: MERDUR Sample No.: WC0789093 Lab Number: 05927823 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		

HISTORICAL DIAGNOSIS

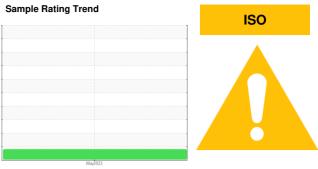


OIL ANALYSIS REPORT

Machine Id 101-LYO-904

Hydraulic System

NAVI-GUARD PREMIUM AW-32 HYDRAULIC (--- LTR)



DIAGNOSIS

Component

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

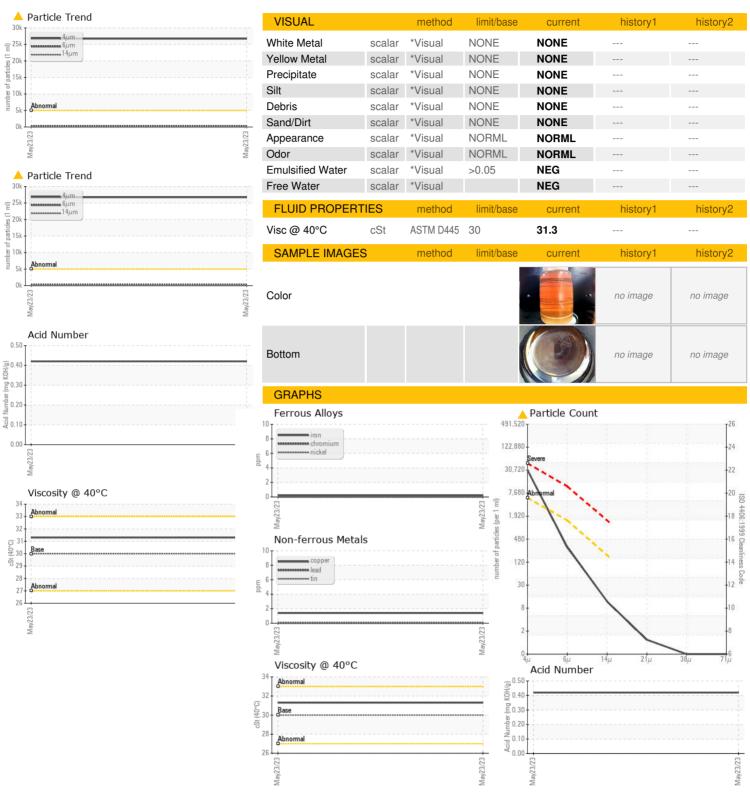
C (LIR)				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0789093		
Sample Date		Client Info		23 May 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
- itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
_ead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	1		
 Γin	ppm	ASTM D5185m	>20	0		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		33		
Barium	ppm	ASTM D5185m		0		
Nolybdenum	ppm	ASTM D5185m		13		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		112		
Calcium	ppm	ASTM D5185m		1124		
Phosphorus	ppm	ASTM D5185m		294		
Zinc	ppm	ASTM D5185m		289		
Sulfur	ppm	ASTM D5185m		2915		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	26724		
Particles >6µm			>1300	263		
Particles >14µm		ASTM D7647	>160	10		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/15/10</u>		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	та КОЦ/а	VCTM DOUVE		0.42		

Acid Number (AN) mg KOH/g ASTM D8045

0.42



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0789093 : 05927823 : 10607770

Received : 17 Aug 2023 Diagnosed Diagnostician

: 18 Aug 2023 : Wes Davis

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)

MERCK & COMPANY

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