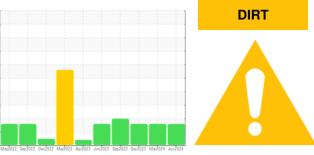


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



history1

historv2

current

Machine Id

ENTWISTLE STAND

Component Hydraulic System Fluid MILITARY MIL-H-83282C (50 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal. The system cleanliness is acceptable for your target SAE AS4059 (replaces NAS 1638) cleanliness code. Chlorine measured at 27.2 ppm.

Fluid Condition

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

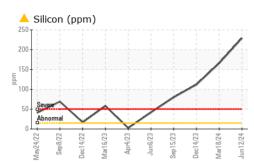
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0926342	WC0768786	WC0874945
Sample Date		Client Info		12 Jun 2024	18 Mar 2024	14 Dec 2023
Machine Age	hrs	Client Info		0	0	8574
Oil Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Filtered	N/A	Filtered
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
		un a the a al	line it /le e e e		la la tanun d	bister 0
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	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	3
Phosphorus	ppm	ASTM D5185m		757	706	708
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	229	166	▲ 112
Sodium	ppm	ASTM D5185m	210	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Chlorine Content	ppm	ASTM D5185m	220	27.2	14.2	28.6
Water	%	ASTM D6304	>0.05	0.017	0.009	0.008
ppm Water	ppm	ASTM D6304		175	95	80
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647				
Particles >6µm		ASTM D7647 ASTM D7647	>16000			
Particles >14µm		ASTM D7647	>2850			
Particles >21µm		ASTM D7647				
Particles 5-15µm	count	*NAS 1638	>16000	3572	7082	2595
Particles 15-25µm	count	*NAS 1638	>2850	279	1051	314
Particles 25-50µm	count	*NAS 1638	>2850	65	498	67
				0	20	0
Particles 50-100µm	count	*NAS 1638				
Particles >100µm	count	*NAS 1638	>16	0 4	0	0
NAS 1638 3:51:40) Hev: 1	Class	*NAS 1638	>0	Contact/Loca	6 ation: JIM ALLE	4 N - NORPLAM

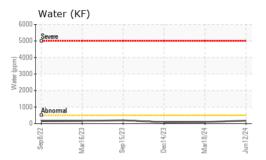
Report Id: NORPLAMA [WUSCAR] 06213972 (Generated: 06/27/2024 08:51:40) Kev: 1

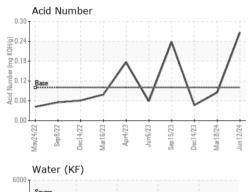
Contact/Location: JIM ALLEN - NORPLAMA

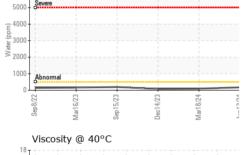


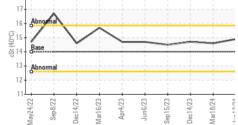
OIL ANALYSIS REPORT











FLUID DEGRADA	ATION	method	limit/base	current	history1
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	0.267	0.085
VISUAL		method	limit/base	current	history1
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base		history1	history O
FLUID PROPERT	IFS .					
		method	iiiiii/base	current	history i	history2
Visc @ 40°C	cSt	ASTM D445	14.0	14.9	14.6	14.71

Color

Bottom



history2

history2

0.047

NONE

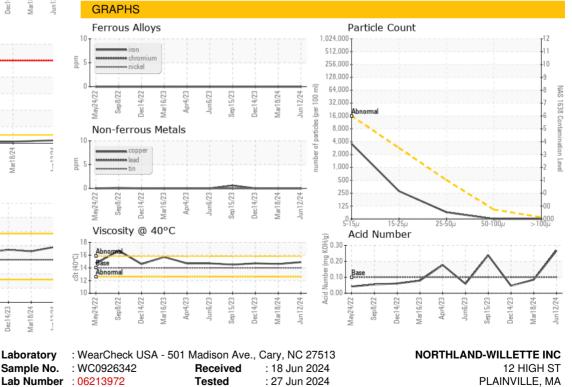
NONE

NONE

NONE

NONE

NONE



: 27 Jun 2024 - Jonathan Hester

PLAINVILLE, MA US 02762 Contact: JIM ALLEN JALLEN@NWHYDINC.COM

T: F: (508)699-4017

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)

Test Package : IND 2 (Additional Tests: CHLORINEXRF, KF, PRTCOUNTNAS)

Diagnosed

Report Id: NORPLAMA [WUSCAR] 06213972 (Generated: 06/27/2024 08:51:40) Rev: 1

Certificate 12367

Laboratory

Sample No.

Unique Number : 11086836

Contact/Location: JIM ALLEN - NORPLAMA