

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id W16B Component Hydraulic System Fluid MIL-PRF-83282 (--- GAL)

#### DIAGNOSIS

### 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

Discrete particle counts [100 ml]  $5-15\mu$ m = 10300, 15-25 $\mu$ m = 1000, 25-50 $\mu$ m = 300, 50-100 $\mu$ m = 0, >100 $\mu$ m = 0. The water content is negligible. The amount and size of particulates present in the system are acceptable. Chlorine value is 19.5 ppm.

#### Fluid Condition

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

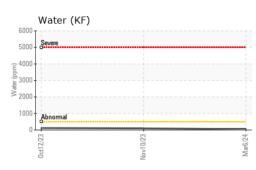
		Jul2023	Aug2023	Oct2023 Nov2023	Mar2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874965	WC0874931	WC0768837
Sample Date		Client Info		06 Mar 2024	10 Nov 2023	12 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		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	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	24
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		573	713	689
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		19	44	58
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	12	18	21
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	2
Chlorine Content	ppm	ASTM D5185m		19.5	17.2	18.0
Water	%	ASTM D6304	>0.05	0.005	0.010	0.012
ppm Water	ppm	ASTM D6304	>500	51	102	121.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	410	340	455
Particles >6µm		ASTM D7647	>1300	116	122	149
Particles >14µm		ASTM D7647	>160	13	16	24
Particles >21µm		ASTM D7647	>40	3	4	5
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	16/14/11	16/14/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	0.041	0.085	0.048

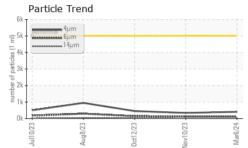
Report Id: NORPLAMA [WUSCAR] 06125294 (Generated: 03/28/2024 07:05:54) Rev: 1

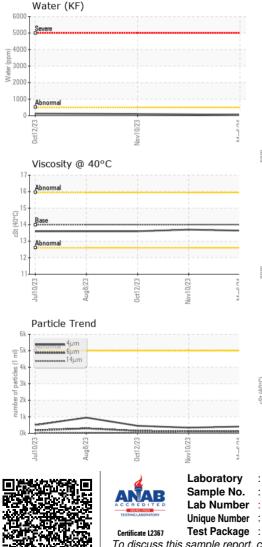
Contact/Location: JIM ALLEN - NORPLAMA



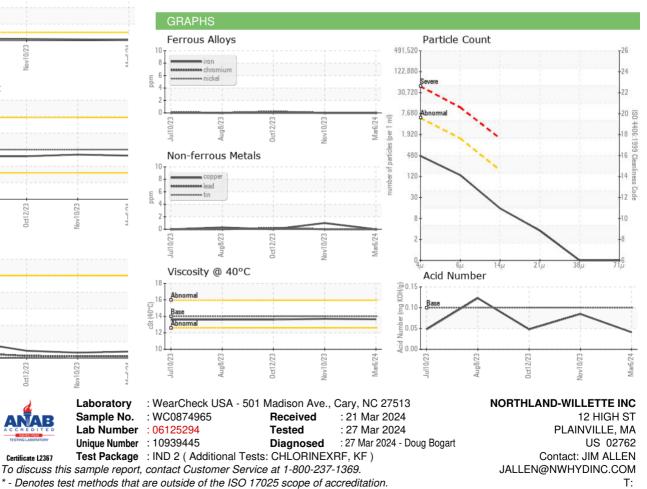
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	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	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	14.0	13.64	13.7	13.6
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (508)699-4017

Contact/Location: JIM ALLEN - NORPLAMA