

OIL ANALYSIS REPORT

Sample Rating Trend



W11 (S/N 31037) Component **Hydraulic System**

MIL-PRF-83282 (--- GAL)

Recommendation

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

Wear

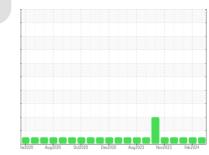
All component wear rates are normal.

Contamination

Discrete particle counts [100 ml] 5-15µm = 14600, 15-25μm = 1300, 25-50μm = 300, 50-100μm = 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 11.5 ppm.

Fluid Condition

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





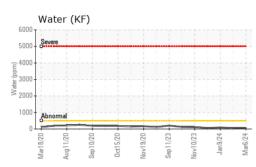
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874960	WC0874957	WC0874947
Sample Date		Client Info		06 Mar 2024	06 Feb 2024	09 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				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	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	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	<1	<1
Vanadium	ppm	ASTM D5185m		0	<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	1
Phosphorus	ppm	ASTM D5185m		609	723	709
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		20	43	52
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Chlorine Content	ppm	ASTM D5185m		11.5	6.90	16.8
Water	%	ASTM D6304	>0.05	0.005	0.005	0.008
ppm Water	ppm	ASTM D6304	>500	59	57	90
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	596	358	691
Particles >6µm		ASTM D7647	>1300	162	91	185
Particles >14µm		ASTM D7647	>160	16	8	20
Particles >21µm		ASTM D7647	>40	3	2	6
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	16/14/10	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	0.378	0.457	0.25

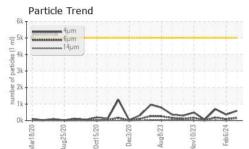
0.457 0.378 Contact/Location: JIM ALLEN - NORPLAMA

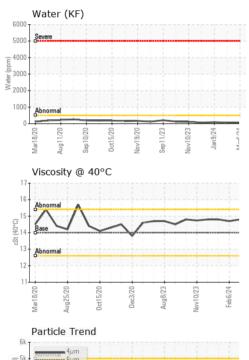
Report Id: NORPLAMA [WUSCAR] 06125292 (Generated: 03/28/2024 07:05:19) Rev: 1

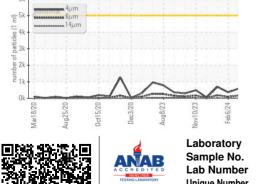


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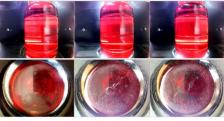




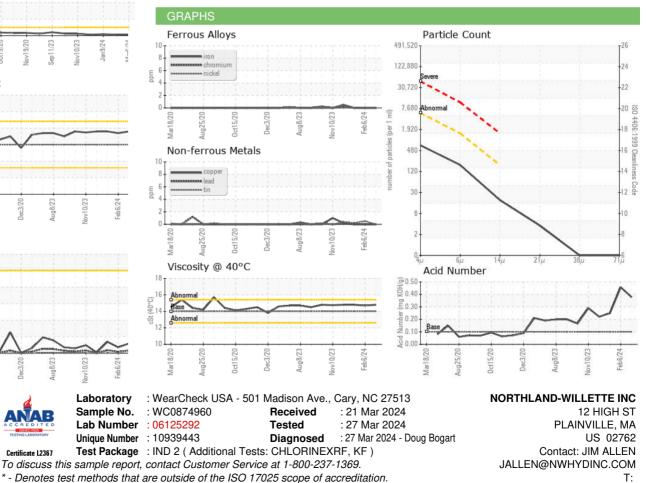
Certificate L2367

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	14.8	14.7	14.8
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



* - 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) F: (508)699-4017

Contact/Location: JIM ALLEN - NORPLAMA