

OIL ANALYSIS REPORT

Sample Rating Trend



Area [85461] W13 (S/N 31030) Hydraulic System Fluid

MIL-PRF-83282 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target SAE AS4059 (replaces NAS 1638) cleanliness code. There is no indication of any contamination in the oil. Chlorine measured at 337.0 ppm.

Fluid Condition

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

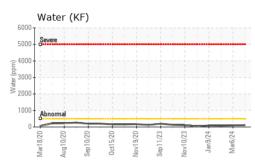
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0926367	WC0874962	WC0874954		
Sample Date		Client Info		09 Apr 2024	06 Mar 2024	06 Feb 2024		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
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	0	<1		
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	0	<1		
Tin	ppm	ASTM D5185m	>20	0	0	<1		
Vanadium	ppm	ASTM D5185m		<1	0	<1		
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	0		
Calcium	ppm	ASTM D5185m		0	0	0		
Phosphorus	ppm	ASTM D5185m		695	578	682		
Zinc	ppm	ASTM D5185m		0	0	0		
Sulfur	ppm	ASTM D5185m		69	133	252		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	7	7	7		
Sodium	ppm	ASTM D5185m		0	<1	0		
Potassium	ppm	ASTM D5185m	>20	0	0	0		
Chlorine Content	ppm	ASTM D5185m		337	287	303		
Water	%	ASTM D6304	>0.05	0.010	0.010	0.007		
ppm Water	ppm	ASTM D6304	>500	107	100	77		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	99	1065	1919		
Particles >6µm		ASTM D7647	>1300	41	282	1167		
Particles >14µm		ASTM D7647	>160	11	25	88		
Particles >21µm		ASTM D7647		3	8	11		
Particles >38µm		ASTM D7647	>10	0	0	0		
Particles >71µm		ASTM D7647		0	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/11	17/15/12	18/17/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN) 07:04:47) Rev: 2	mg KOH/g	ASTM D8045	0.1	0.162 Contact/Loc	0.162 0.046 0.043 Contact/Location: JIM ALLEN - NORPLAMA			

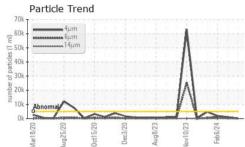
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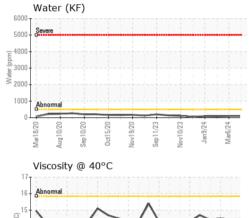
Contact/Location: JIM ALLEN - NORPLAMA

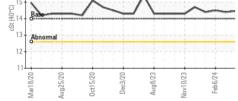


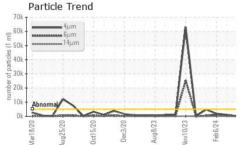
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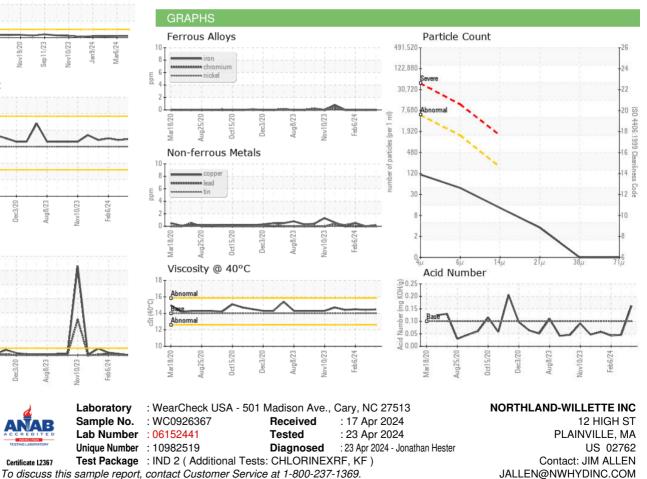






VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	14.0	14.47	14.4	14.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					•	

Bottom



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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Certificate 12367

Contact/Location: JIM ALLEN - NORPLAMA

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