

OIL ANALYSIS REPORT

Thompson Falls **THF04 Governor** Component

Hydraulic System

LUBRICATION ENG 6802 MULTEC IND OIL 46 (40 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

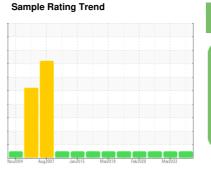
All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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





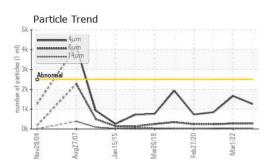
NORMAL

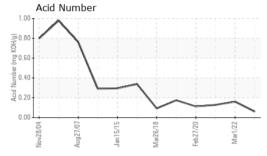
SAMPLE INFORM	IATION	method				history2
Sample Number		Client Info		WCI2326262	WCI2326105	WCI2326292
Sample Date		Client Info		04 Mar 2023	01 Mar 2022	03 Mar 2021
Machine Age	yrs	Client Info		21	20	19
Oil Age	yrs	Client Info		15	14	13
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	l	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>30	0	<1	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>2	<1	<1	0
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>25	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		115	119	105
Phosphorus	ppm	ASTM D5185m		316	360	303
Zinc	ppm	ASTM D5185m		218	204	197
Sulfur	ppm	ASTM D5185m		941	855	750
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	1	0	0
FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1260	1665	848

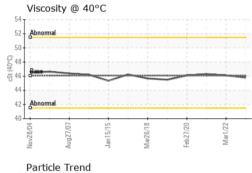
FLUID GLEANLINESS	method	limit/base	current	nistory i	nistory2
Particles >4µm	ASTM D7647	>2500	1260	1665	848
Particles >6µm	ASTM D7647	>640	281	274	242
Particles >14µm	ASTM D7647	>80	17	31	42
Particles >21µm	ASTM D7647	>20	3	9	16
Particles >38µm	ASTM D7647	>4	0	1	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/11	18/15/12	17/15/13

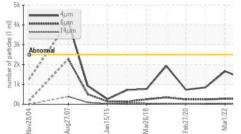


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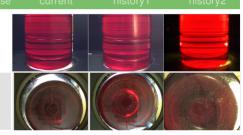


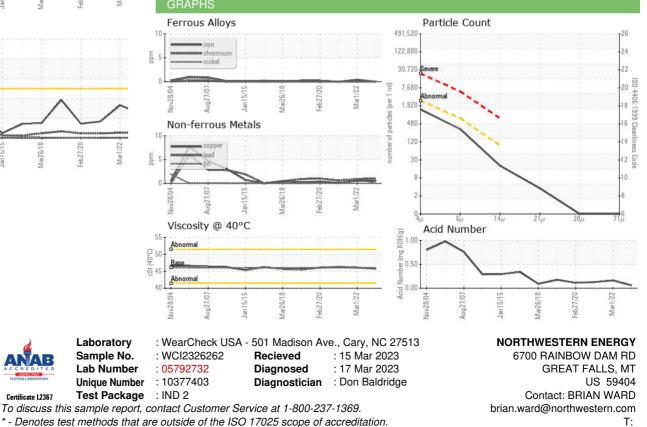


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.06	0.16	0.128
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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	46.06	45.8	46.1	46.3
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)

Certificate L2367

Contact/Location: BRIAN WARD - PPLBUT

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