

OIL ANALYSIS REPORT

[CAN 86 RECD 5/20/22] **ASTM IHFO 2305**

Component **Hydraulic System** TDH FLUID SAE 75W80 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

Wear

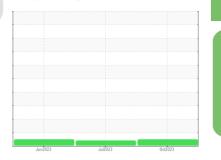
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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



Sample Rating Trend



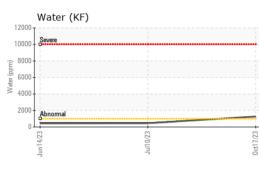
NORMAL

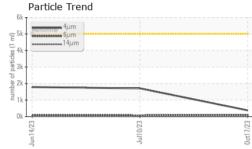
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05982350	WC05895043	WC05874457
Sample Date		Client Info		17 Oct 2023	10 Jul 2023	14 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>20	8	10	8
Chromium	ppm	ASTM D5185m	>10	° <1	1	<1
Nickel	ppm			0		0
	ppm	ASTM D5185m	>10		0	
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	10	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	4	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m		4	5	4
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	16	16	16
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	10	2	3	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	29	26	29
Calcium	ppm	ASTM D5185m	3500	2443	2726	2606
Phosphorus	ppm	ASTM D5185m	1150	930	995	947
Zinc	ppm	ASTM D5185m	1150	1122	1176	1161
Sulfur	ppm	ASTM D5185m	5000	4071	4418	5081
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	13	11
Sodium	ppm	ASTM D5185m	0	4	0	4
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304		0.127	0.046	0.044
ppm Water	ppm	ASTM D6304		1270	462.7	447.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	376	1706	1787
Particles >6µm		ASTM D7647	>1300	102	69	92
Particles >14µm		ASTM D7647	>160	7	7	10
Particles >21µm		ASTM D7647		2	3	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/10	18/13/10	18/14/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	1.831	1.49	1.849

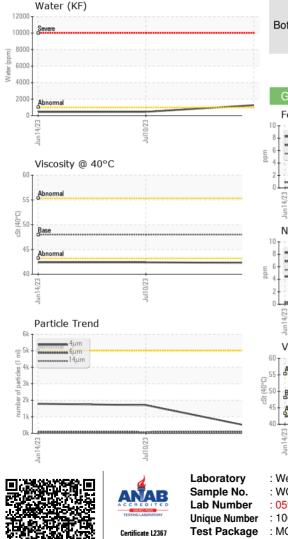
Contact/Location: Doug Bogart - WEACARPT



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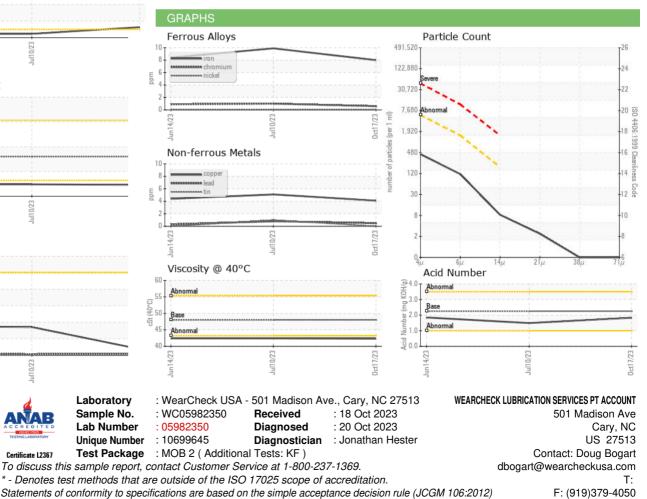






10010						
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	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	48	42.3	42.4	42.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
				6		16N

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Doug Bogart - WEACARPT