

CONTAMINATION FLUID CONDITION

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WEAR

NORMAL

NORMAL

NORMAL

RIG 1 R1-TD-HYD

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION									

DECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

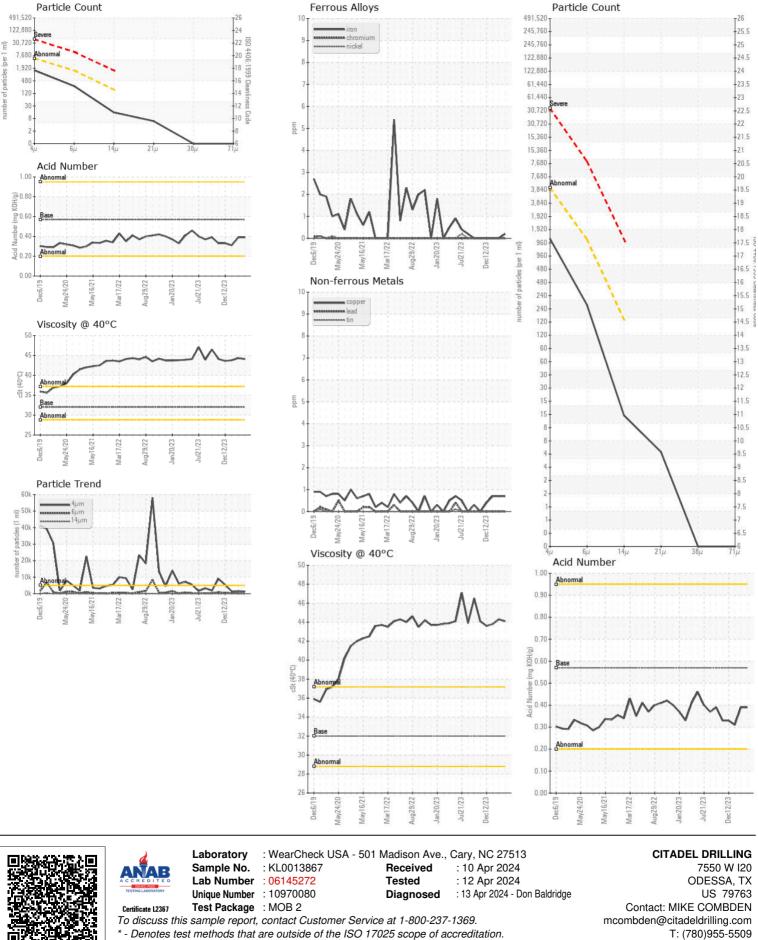
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013867	KL0014026	KL0014037
Sample Date		Client Info		20 Mar 2024	16 Feb 2024	11 Jan 2024
Machine Age	days	Client Info		45326	45338	45303
Oil Age	days	Client Info		0	0	0
Filter Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	1.5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm		>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nnm	ASTM D5185m	>20	0	0	0
Potassium	ppm ppm	ASTM D5185m	>20	2	0	0
Water	ppm	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		1325	1585	1410
Particles >6µm		ASTM D7647	>1300	234	268	285
Particles >14µm		ASTM D7647		13	16	200
Particles >21µm		ASTM D7647	>40	5	3	5
Particles >38µm		ASTM D7647		0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)		18/15/11	18/15/11	18/15/12
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		*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	2	<1
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	2	0	<1
Calcium	ppm	ASTM D5185m	200	41	37	40
Phosphorus	ppm	ASTM D5185m	300	302	273	244
Zinc	ppm	ASTM D5185m	370	358	360	402
Sulfur	ppm	ASTM D5185m	2500	747	654	709
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.39	0.39	0.31
Visc @ 40°C	cSt	ASTM D445	32	44.1	44.3	43.8



* - 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)

Contact/Location: MIKE COMBDEN - CITODETEX Page 2 of 2

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