

## **OIL ANALYSIS REPORT**

### Sample Rating Trend





NORMAL

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013106	KL0012936	KL0012906
Sample Date		Client Info		17 Nov 2023	17 Oct 2023	16 Sep 2023
Machine Age	days	Client Info		45247	45211	45183
Oil Age	days	Client Info		0	0	0
Oil Changed	,	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	6
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		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	0	4
Tin	ppm	ASTM D5185m	>10	0	0	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	0	8
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	<1	0	5
Calcium	ppm	ASTM D5185m	200	41	42	35
Phosphorus	ppm	ASTM D5185m	300	317	333	330
Zinc	ppm	ASTM D5185m	370	399	406	382
Sulfur	ppm	ASTM D5185m	2500	771	754	1048
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	0	1
Sodium	ppm	ASTM D5185m		2	0	9
Potassium	ppm	ASTM D5185m	>20	<1	0	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1469	1082	<mark>▲</mark> 5215
Particles >6µm		ASTM D7647	>1300	335	195	253
Particles >14µm		ASTM D7647	>160	16	14	10
Particles >21µm		ASTM D7647	>40	4	4	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	17/15/11	▲ 20/15/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.57	0.28	0.33	0.40

# Component Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

#### DIAGNOSIS

Area RIG 2

#### 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.

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Contact/Location: MIKE COMBDEN - CITODETEX



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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	32	43.5	43.1	45.4
SAMPLE IMAGES	\$	method				history2
Color						
Bottom						



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