

OIL ANALYSIS REPORT

Sample Rating Trend



				022 Jul2022 Oct2022 Mar2023 J		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history
Sample Number		Client Info		KL0013141	KL0012896	KL0012528
Sample Date		Client Info		03 Nov 2023	29 Sep 2023	25 Aug 202
Machine Age	days	Client Info		45233	45196	45161
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>20	0	0	<1
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		0	<1	0
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium		ASTM D5185m	>10	0	0	0
Cadmium	ppm				0	0
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	4	<1
Calcium	ppm	ASTM D5185m	200	32	37	44
Phosphorus	ppm	ASTM D5185m	300	316	319	336
Zinc	ppm	ASTM D5185m	370	390	396	437
Sulfur	ppm	ASTM D5185m	2500	714	739	947
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history
Particles >4µm		ASTM D7647	>5000	4 9043	1831	3255
Particles >6µm		ASTM D7647	>1300	857	266	272
Particles >14µm		ASTM D7647	>160	19	8	11
Particles >21µm		ASTM D7647	>40	6	2	3
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	18/15/10	19/15/1
FLUID DEGRADA	TION	method	limit/base	ourroat	history1	history
				curreni	liaiuivi	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	current 0.33	0.39	0.37

R1-TD-HYD Component

Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Area RIG 1

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

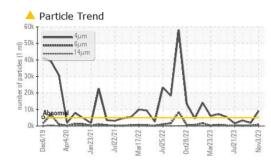
Fluid Condition

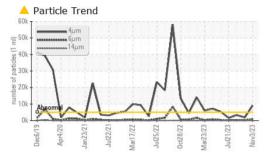
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

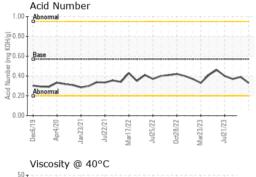
Contact/Location: MIKE COMBDEN - CITODETEX

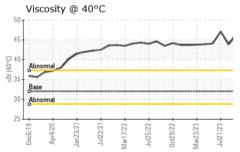


OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	history2
		methou	iiiiii/base	Current	Thistory I	TIStory2
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	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	44.1	46.5	43.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					And appendix	

Bottom

