

OIL ANALYSIS REPORT

Sample Rating Trend



Area **RIG 6 R6-G-02 NKL** Component **Diesel Engine**

NOT GIVEN (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012961	KL0012689	KL0012526
Sample Date		Client Info		17 Sep 2023	28 Jul 2023	24 Jun 2023
Machine Age	days	Client Info		45180	45134	45099
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	6	5
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	5	3
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	0	2	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		429	340	393
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		127	128	134
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		693	645	737
Calcium	ppm	ASTM D5185m		1559	1519	1694
Phosphorus	ppm	ASTM D5185m		707	676	758
Zinc	ppm	ASTM D5185m		858	849	913
Sulfur	ppm	ASTM D5185m		2540	2728	3149
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	9	14
Sodium	ppm	ASTM D5185m		<1	6	2
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.1	5.4	7.0
Sulfation	Ahs/1mm	*ASTM D7415	>30	21.6	22.8	23.5



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FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	3550	5020	3280
Particles >6µm		ASTM D7647	>5000	1934	2735	1787
Particles >14µm		ASTM D7647	>640	329	465	304
Particles >21µm		ASTM D7647	>160	111	157	102
Particles >38µm		ASTM D7647	>40	17	24	16
Particles >71µm		ASTM D7647	>10	2	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	20/19/16	19/18/15
FLUID DEGRADA	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.9	17.2
Base Number (BN)	mg KOH/g	ASTM D2896		9.03	11.64	13.31
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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	ES	method	limit/base	current	history i	nistory∠





Contact/Location: MIKE COMBDEN - CITODETEX