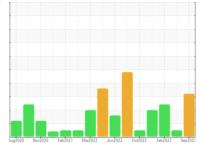


OIL ANALYSIS REPORT

GUAY SON [CONHER] **BM CHUYITO 29 IBACO**

Auxilary Power Unit Diesel Engine

XTRA REV 15W40 (8 LTR)



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. There is a moderate amount of fuel present in the oil.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

		Aug2U2U Nov	100001 110000	ZZ Jun2022 Oct2022 Feb20	23 Sep2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012855	KL0012250	KL0011351
Sample Date		Client Info		21 Sep 2023	23 Jun 2023	24 Feb 2023
Machine Age	hrs	Client Info		16749	16725	0
Oil Age	hrs	Client Info		24	3	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	I	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	87	93	69
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	2
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32	434	322
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		15	130	107
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		64	500	491
Calcium	ppm	ASTM D5185m		2309	1678	1597
Phosphorus	ppm	ASTM D5185m		1041	1011	876
Zinc	ppm	ASTM D5185m		1245	1156	1119
Sulfur	ppm	ASTM D5185m		3389	3754	3644
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	11	10
Sodium	ppm	ASTM D5185m		<1	2	3
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>5	<u> </u>	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.5	6.2	5.6

14.0

Sulfation

Abs/.1mm *ASTM D7415 >30

20.8

20.2



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