

## **OIL ANALYSIS REPORT**

### Area MINING ME-21 GRADALL TELEHANDLER 0160000925

**Diesel Engine** 

Fluid SHELL RIMULA SUPER SAE 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Machine is a lot older than 897 hours. This is a fairly new hour meter. )

#### Wear

All component wear rates are normal.

#### Contamination

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 Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0927344		
Sample Date		Client Info		12 Apr 2024		
Machine Age	hrs	Client Info		897		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	28		
Chromium	nnm	ΔSTM D5185m	>20	20 ~1		
Nickel	nnm	ASTM D5185m	>20 \_4	0		
Titanium	nnm	ASTM D5185m	~	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	nnm	ASTM D5185m	>20	2		
	nnm	ASTM D5185m	>40	0		
Copper	nnm	ASTM D5185m	< <u>330</u>	0		
Tin	nnm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
	pp	mothod	limit/baca	ourront	history1	history?
ADDITIVES			IIIIII/Dase	current	TIISTOLA	mstoryz
Boron	ppm	ASTM D5185m		180		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		65		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	0040	439		
Calcium	ppm	ASTM D5185m	2840	1912		
Phosphorus	ppm	ASTM D5185m	1150	1157		
	ppm	ASTM D5185M	1270	1348		
Sullur	ррп	ASTM D5165III	2029	3978		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3		
	ma KOU/a		10.6	0.4		



Base

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