

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Wear

oil.

Area **MINING** ME-27 CATERPILLAR TL055 0THH01149 Diesel Engine

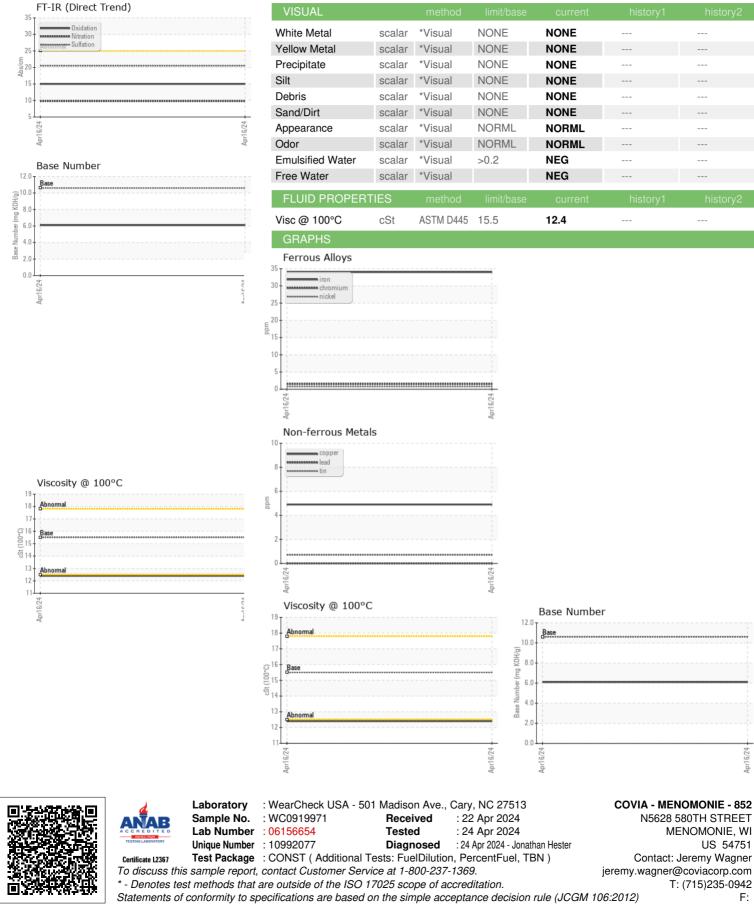
SHELL RIMULA SUPER SAE 15W40 (--- GAL)

Recommendation Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Contamination There is no indication of any contamination in the Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0919971		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		7641		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m		6		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m		5		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		124		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		74		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	0040	205		
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	2840 1150	1699 923		
Zinc	ppm ppm	ASTM D5185m	1270	923 1107		
Sulfur	ppm	ASTM D5185m	2829	3345		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>25	17		
Sodium	ppm	ASTM D5185m	20	2		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>3	9.8		
Sulfation	Abs/.1mm	*ASTM D7024	>30	20.5		
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	15.0		
Dase Multiber (DIN)	niy KOH/g	M3 HM D2030	10.6	6.1		



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