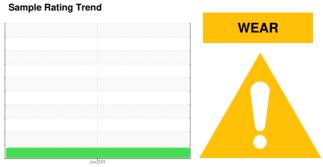


OIL ANALYSIS REPORT

MINING [ME-135] ME-135 KOMATSU WA500-8 A97799

Diesel Engine

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



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

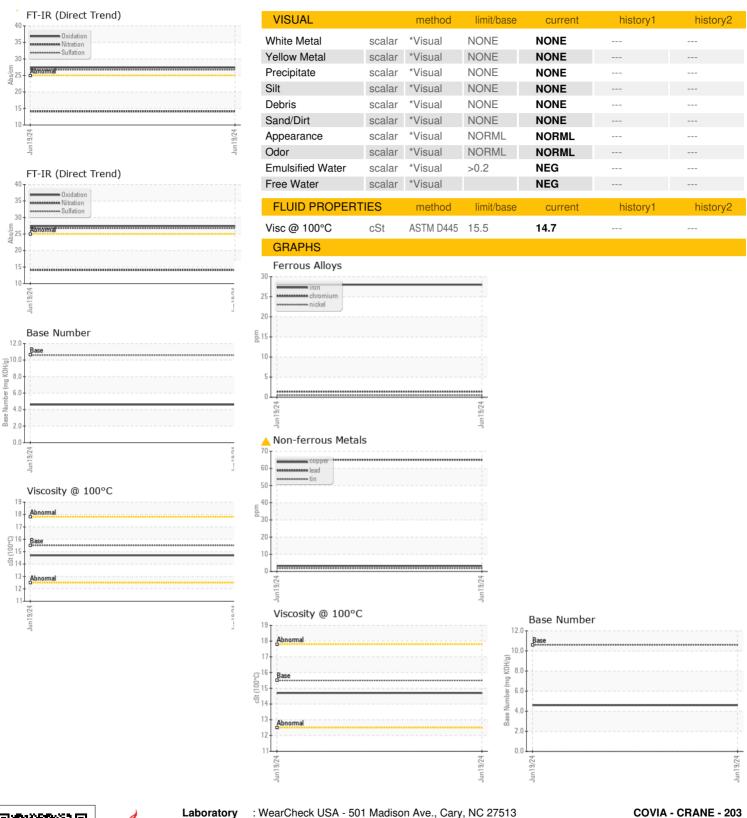
Fluid Condition

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.

L)				Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0950097		
Sample Date		Client Info		19 Jun 2024		
Machine Age	hrs	Client Info		6438		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	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
ron	ppm	ASTM D5185m	>100	28		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	4		
_ead	ppm	ASTM D5185m	>40	△ 65		
Copper	ppm	ASTM D5185m	>330	3		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		24		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		160		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		818		
Calcium	ppm	ASTM D5185m	2840	1500		
Phosphorus	ppm	ASTM D5185m	1150	846		
Zinc	ppm	ASTM D5185m	1270	1033		
Sulfur	ppm	ASTM D5185m	2829	3224		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	14.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.7		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
FLUID DEGRAD	ATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 27.4	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Laboratory

: WC0950097 Lab Number : 06217833 Unique Number : 11096030

Received : 24 Jun 2024 **Tested**

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Don Baldridge

Test Package : CONST (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

COVIA - CRANE - 203 10750 FM 1233

CRANE, TX US 79731

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