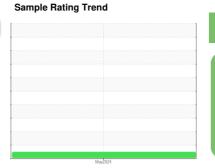


OIL ANALYSIS REPORT

MINING **ME-123 ME-123**

Diesel Engine

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





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

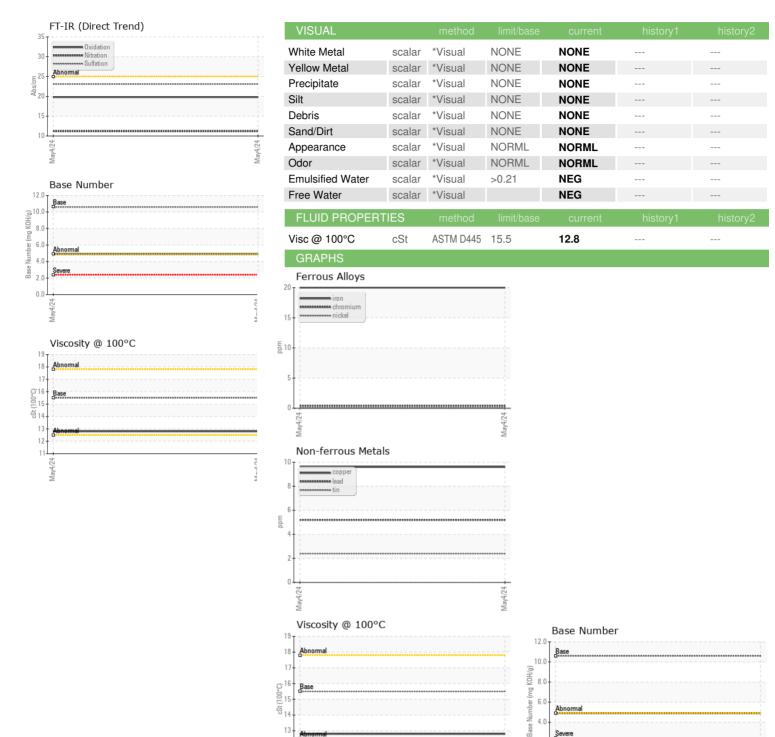
Fluid Condition

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

AL)				May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920495		
Sample Date		Client Info		04 May 2024		
Machine Age	hrs	Client Info		10185		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	20		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	4		
Lead	ppm	ASTM D5185m	>26	5		
Copper	ppm	ASTM D5185m	>26	10		
Tin	ppm	ASTM D5185m	>4	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		26		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		70		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		25		
Calcium	ppm	ASTM D5185m	2840	2244		
Phosphorus	ppm	ASTM D5185m	1150	1049		
Zinc	ppm	ASTM D5185m	1270	1251		
Sulfur	ppm	ASTM D5185m	2829	5346		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	5		
Sodium	ppm	ASTM D5185m	>31	5		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	11.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8		
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	4.9		



OIL ANALYSIS REPORT







Sample No. Lab Number : 06176718 Unique Number : 11022771

: WC0920495

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 13 May 2024 Diagnosed

: 14 May 2024 : 14 May 2024 - Wes Davis

0.0

MAUK, GA US 31058 Contact: Phil Ivanisin phil.ivanisin@coviacorp.com T: (478)244-7020

COVIA - JUNCTION CITY - 095

1333 SANDPIT ROAD

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)

Report Id: COVJUN [WUSCAR] 06176718 (Generated: 05/14/2024 11:48:43) Rev: 1

Contact/Location: Phil Ivanisin - COVJUN