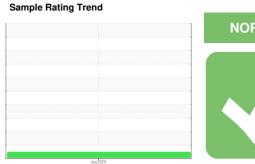


# **OIL ANALYSIS REPORT**

# **MINING** ME-301 VOLVO L350F 1961 Diesel Engine SHELL RIMULA SUPER SAE 15W40 (--- GAL)





### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a components first oil change.

### Contamination

There is no indication of any contamination in the

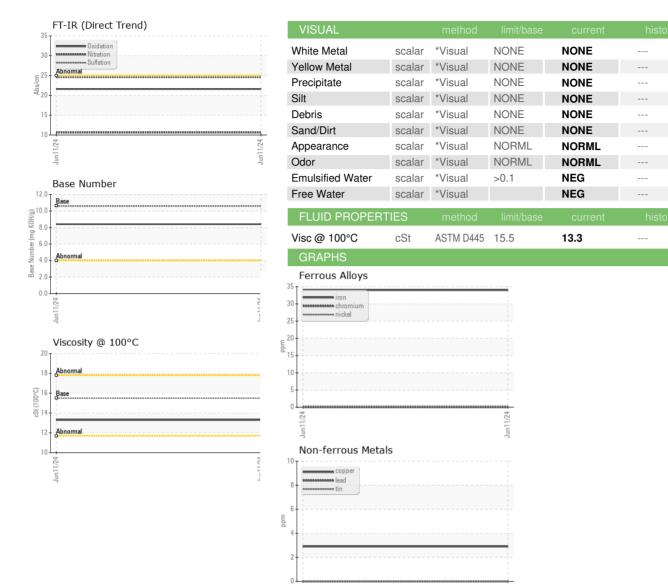
### **Fluid Condition**

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

SAE 15W4U (-	GAL)			Jun 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0928245		
Sample Date		Client Info		11 Jun 2024		
Machine Age	hrs	Client Info		11559		
Oil Age	hrs	Client Info		11559		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIC	N	method	limit/base	current	history1	history2
-uel		WC Method	>6.0	<1.0		
Vater		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	34		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	<1		
Γitanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	5		
_ead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>15	3		
Γin	ppm	ASTM D5185m	>10	0		
√anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		29		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		51		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		393		
Calcium	ppm	ASTM D5185m	2840	1890		
Phosphorus	ppm	ASTM D5185m	1150	1026		
Zinc	ppm	ASTM D5185m	1270	1182		
Sulfur	ppm	ASTM D5185m	2829	3585		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2		
Nitration	Abs/cm	*ASTM D7624	>20	10.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6		
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	8.4		



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06211256

cSt (100°C)

: WC0928245

Viscosity @ 100°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11084120

: 18 Jun 2024 Diagnosed : 18 Jun 2024 - Wes Davis

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.

**COVIA - PORTAGE - 021** 

Base Number

10 (mg K0H/g)

6.0

0.0

: 17 Jun 2024

N6082 US HWY 51 PARDEEVILLE, WI US 53954 Contact: Sean Lyons

sean.lyons@coviacorp.com T: (507)514-2204

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)