

OIL ANALYSIS REPORT

## Machine Id RSI ICE UNIT V-343 E1

## Auxiliary Propane Engine

## VALVOLINIE BLUE HEAVY DUTY DIESEL 15W40 (16 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06218433		
	Sample Date		Client Info		03 Jun 2024		
	Machine Age	hrs	Client Info		3555		
	Oil Age	hrs	Client Info		400		
	Filter Age	hrs	Client Info		400		
	Oil Changed		Client Info		Changed		
	Filter Changed Sample Status		Client Info		Changed NORMAL		
WEAR	Iron	ppm	ASTM D5185m		40		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		3		
	Nickel	ppm	ASTM D5185m	>5	4		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		6		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>8	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	25		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5		
	Water		WC Method	>0.1	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	13.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		11		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		22		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		66		
		ppm	ASTM D5185m		1		
	Manganese	ppin					
	Magnesium	ppm	ASTM D5185m		1006		
	-		ASTM D5185m ASTM D5185m		1713		
	Magnesium Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m ASTM D5185m				
	Magnesium Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		1713 930 1162		
	Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1713 930		

Oxidation

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26.8

8.75

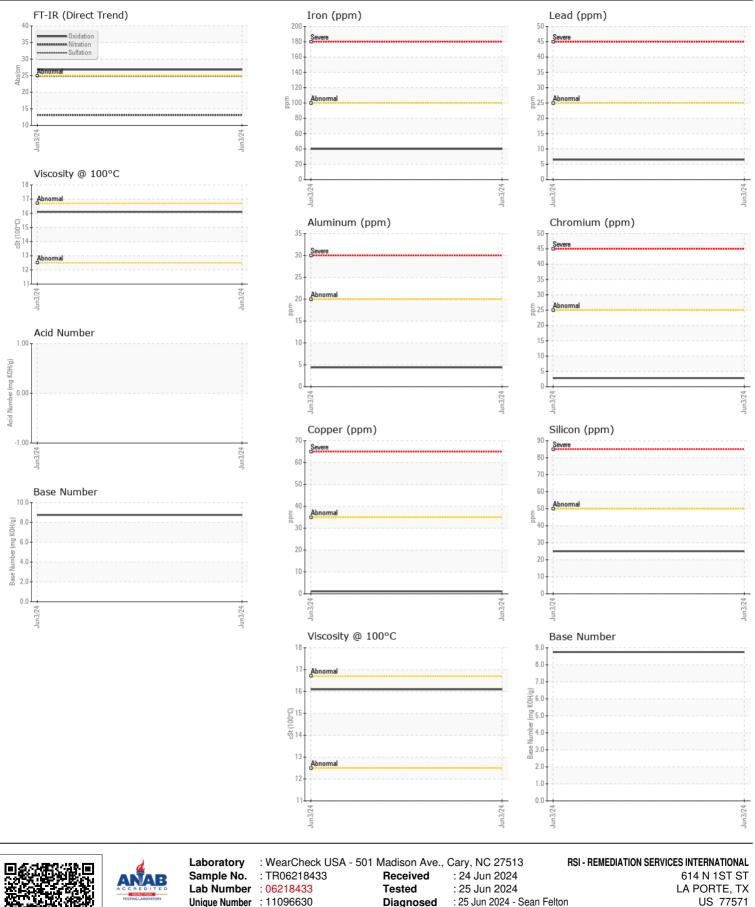
16.1

Abs/.1mm \*ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt



US 77571 Contact: SCOTT LEHMAN

T:

F:

Test Package : MOB 2 (Additional Tests: PQ) Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - 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)

Diagnosed

Contact/Location: SCOTT LEHMAN - RSILAP Page 2 of 2