

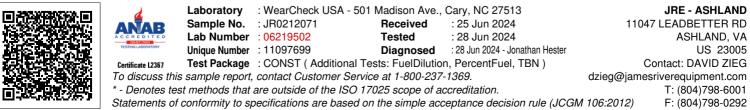
Machine Id VOGELE 1703-3i 12830150 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212071		
	Sample Date		Client Info		18 Jun 2024		
	Machine Age	hrs	Client Info		1142		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	90		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	4		
	Nickel	ppm	ASTM D5185m	>4	1		
	Titanium	ppm	ASTM D5185m		3		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	9		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	260		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		22		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7		
	Fuel	%	ASTM D3524	>5	1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	11.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9		
	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	>0.2	NEG		
FLUID CONDITION	0			450	•		
	Sodium	ppm	ASTM D5185m		9		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		29		
	Barium	ppm	ASTM D5185m		8		
	Molybdenum	ppm	ASTM D5185m	100	66		
	Manganese	ppm	ASTM D5185m	450	8		
	Magnesium	ppm	ASTM D5185m		397		
	Calcium	ppm	ASTM D5185m		1724		
	Phosphorus	ppm	ASTM D5185m		850		
	Zinc	ppm	ASTM D5185m	1350	1166		
	Sulfur	ppm	ASTM D5185m		2806		
	Oxidation	Abs/.1mm	*ASTM D7414		20.2		
	Base Number (BN)	ma KOH/a	ASTM D2896	8.5	4.7		

Visc @ 100°C cSt ASTM D445 14.4

10.5





Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2