

Machine Id

VOGELE 2000-3i 11740492							
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		JR0224510		
	Sample Date		Client Info		12 Jul 2024		
	Machine Age	hrs	Client Info		221		
	Oil Age	hrs	Client Info		221		
	Filter Age	hrs	Client Info		221		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>100	23		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>330	10		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nom	ASTM D5185m	<u>_</u> 25	21		
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		3		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D310311		1.0		
	Water	,0	WC Method		NEG		
	Glycol		WC Method	20.L	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624		7.7		
	Sulfation	Abs/.1mm	*ASTM D7415		17.5		
	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 The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	C a aliu ura			150	 F		
	Sodium	ppm	ASTM D5185m		5		
	Boron Barium	ppm	ASTM D5185m ASTM D5185m	10	83 2		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		2 80		
	Manganese	ppm	ASTM D5185m	100	3		
	Magnesium	ppm ppm	ASTM D5185m	450	3 80		
	Calcium	ppm	ASTM D5185m		2225		
	Phosphorus	ppm	ASTM D5185m		988		
	Zinc	ppm	ASTM D5185m		1144		
		PPIII	ACTM DE105m	1050	4000		

Sulfur

Oxidation

Visc @ 100°C cSt

4326

13.0

7.5

11.2

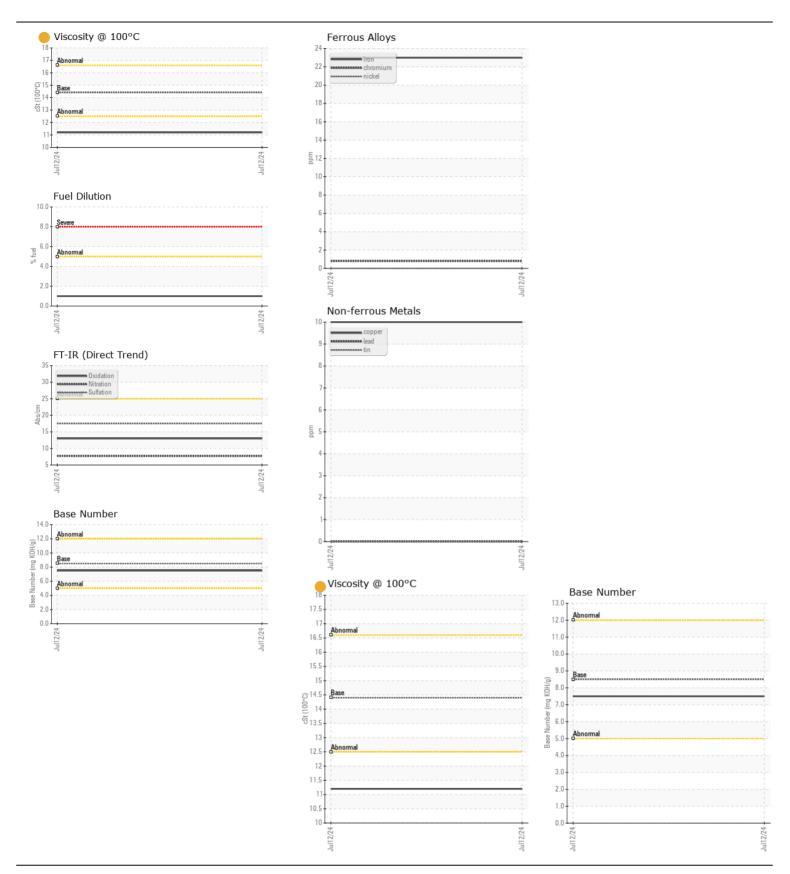
ppm ASTM D5185m 4250

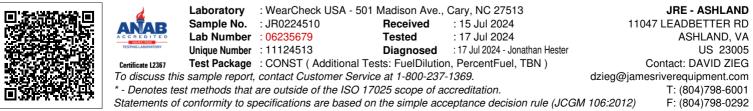
ASTM D445

14.4

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5





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