

## NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id 920003 Component Diesel Engine DIESEL ENGINE OIL SAE 40 (32 LTR)

DECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History	History2
RECOMMENDATION Resample at the next service interval to monitor.	Sample Number	UOIVI	Client Info	LIIIII/AUI	GFL0125981	History1	HIStory2
	Sample Date		Client Info		13 Jun 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Onorit into		NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	68		
	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	4		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	273		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
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CONTAMINATION	Silicon	ppm	ASTM D5185m		7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		13		
	Fuel		WC Method	>5	<1.0		
	Water	0/	WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982	0	NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML		
	Emulsified Water		*Visual	>0.2	NORML NEG		
		scalar	visuai	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	18		
	Boron	ppm	ASTM D5185m		7		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m		61		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	450	943		
	Calcium	ppm	ASTM D5185m		1119		
	Phosphorus	ppm	ASTM D5185m		1024		
	Zinc	ppm	ASTM D5185m	1350	1276		
	Sulfur	ppm	ASTM D5185m		2917		
	Oxidation	Abs/.1mm	*ASTM D7414		17.6		
	Base Number (BN)		ASTM D2896		7.4		
	Visc @ 100°C	cSt	ASTM D445		13.1		



Sample No. Received 3821 Cook Blvd. : GFL0125981 : 17 Jun 2024 Lab Number : 06211395 Tested : 19 Jun 2024 Chesapeake, VA : 19 Jun 2024 - Don Baldridge US 23323 Unique Number : 11084259 Diagnosed Test Package : FLEET ( Additional Tests: Glycol ) Contact: ELVIN RODRIGUEZ Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. elvinrodriguez@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)