

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Area RMR-Metropolis Machine Id 5813 VOLVO L180H 5813 Component Diesel Engine Fluid {not provided} (--- GAL)

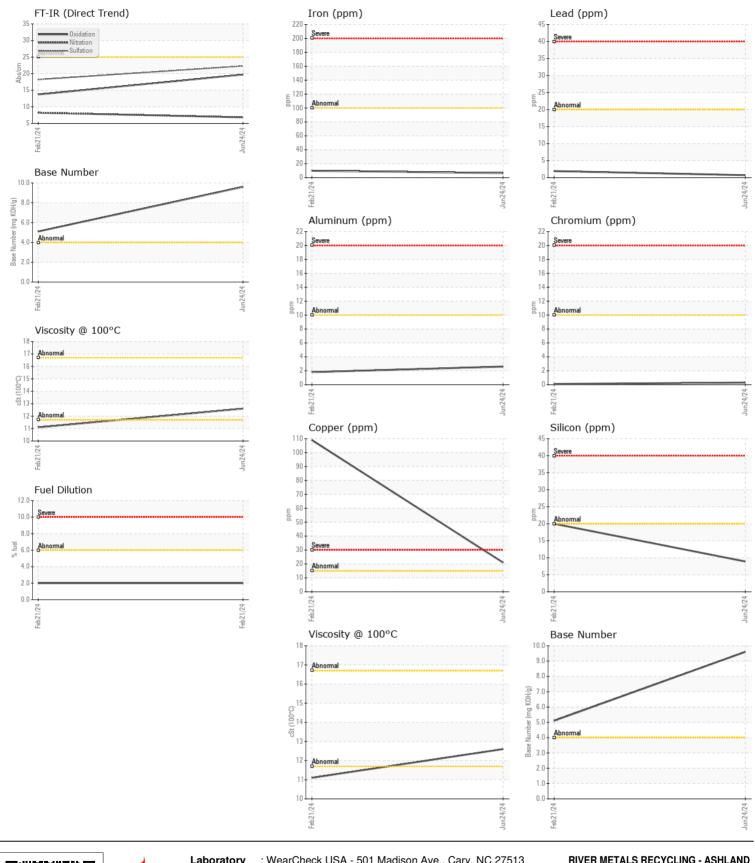
	T		N d a dia a si	L		L Patricial	L l'ataux 0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DJJ06219255	DJJ06097447	
	Sample Date Machine Age	hrs	Client Info Client Info		24 Jun 2024 0	21 Feb 2024 526	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1115	Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A N/A	N/A	
	Sample Status		Ollent III0		NORMAL	ABNORMAL	
						ADNOTIWAL	
WEAR	Iron	ppm	ASTM D5185m	>100	6	10	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>10	3	2	
	Lead	ppm	ASTM D5185m	>20	<1	2	
	Copper	ppm	ASTM D5185m	>15	21	<b>1</b> 09	
	Tin	ppm	ASTM D5185m	>10	1	2	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ASTM D5185m	>20	9	20	
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	20	
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3103III ASTM D3524			2.0	
	Water	70	WC Method		NEG	NEG	
	Glycol		WC Method	20.1	NEG	NEG	
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		22.3	18.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION					4	0	
	Sodium	ppm	ASTM D5185m		<1	2	
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		53	84	
	Barium	ppm	ASTM D5185m ASTM D5185m		1 45	0 78	
	Molybdenum	ppm	ASTM D5185m ASTM D5185m			2	
	Manganese Magnesium	ppm	ASTM D5185m		1 438	63	
	Calcium	ppm	ASTM D5185m		436 1701	1863	
	Phosphorus	ppm	ASTM D5185m		998	939	
	Zinc	ppm	ASTM D5185m		998 1123	1133	
	Sulfur	ppm	ASTM D5185m		3136	3552	
	Oxidation	ppm	*ASTM D5165III	> 2F	19.7	13.7	
	Base Number (BN)	Abs/.1mm		>20	9.6	5.1	
		nig KON/g			5.0	5.1	

Visc @ 100°C cSt

ASTM D445

11.1

12.6



**RIVER METALS RECYCLING - ASHLAND** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1900 FRONT ST : DJJ06219255 : 25 Jun 2024 -Lab Number : 06219255 Tested ASHLAND, KY : 26 Jun 2024 Unique Number : 11097452 Diagnosed : 26 Jun 2024 - Jonathan Hester US 41101 Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. R \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Service Manager - RIVASHKY Page 2 of 2