

## Machine Id **3879L** 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. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		IL0034318		
	Sample Date		Client Info		02 May 2024		
	Machine Age	mls	Client Info		15810		
	Oil Age	mls	Client Info		15000		
	Filter Age	mls	Client Info		15000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>100	184		
	Chromium	ppm	ASTM D5185m		3		
	Nickel	ppm	ASTM D5185m		ہ <1		
	Titanium	ppm	ASTM D5185m	~ 1	<1		
	Silver	ppm	ASTM D5185m	-3	0		
	Aluminum	ppm	ASTM D5185m		12		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		56		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	2.10	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	30		
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m		11		
	Fuel	%	ASTM D3524	>5	<b>4</b> 2.6		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	1.2		
	Nitration	Abs/cm	*ASTM D7624	>20	15.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m	<u>\158</u>	7		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm ppm	ASTM D5185m		24		
	Barium		ASTM D5185m		3		
	Molybdenum	ppm ppm	ASTM D5185m		46		
	Manganese		ASTM D5185m	100	40 7		
	Magnesium	ppm ppm	ASTM D5185m	450	814		
	Calcium		ASTM D5185m		1172		
	Phosphorus	ppm	ASTM D5185m		700		
	Zinc	ppm	ASTM D5185m		850		
	Sulfur	ppm	ASTM D5185m				
		ppm	*ASTM D5165III		2459 20.7		
	Oxidation	Abs/.1mm	ASTIVI D/414	>20	30.7		

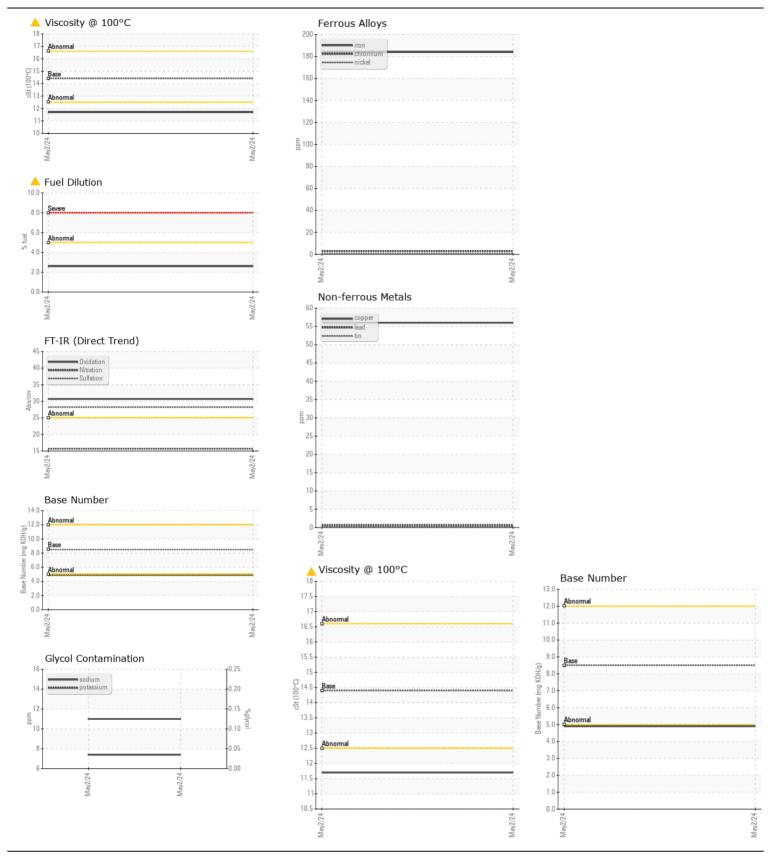
Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

4.9

11.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **RUSH TRUCK CENTER - CHICAGO IDEALEASE** 回新 Sample No. 4655 SOUTH CENTRAL AVENUE : IL0034318 Received : 10 May 2024 Lab Number : 06175160 Tested : 15 May 2024 CHICAGO, IL US 60638 Unique Number : 11021213 Diagnosed : 15 May 2024 - Sean Felton Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel) Contact: MIKE LINLEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. linleym@rushtruckcenters.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (708)496-7500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (708)496-8818

Contact/Location: MIKE LINLEY - IDECHIL Page 2 of 2