

Machine Id **G86** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0874325	WC0783970	WC0758900
	Sample Date		Client Info		15 Jun 2024	27 Jul 2023	19 Jan 2023
	Machine Age	mls	Client Info		55780	7621	7058
	Oil Age	mls	Client Info		0	563	458
	Filter Age	mls	Client Info		0	563	458
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	16	10	26
	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	ء <1	0	<1
	Aluminum	ppm	ASTM D5185m		3	2	4
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m		14	70	3
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Ciliaaa			00	~	7	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	7	6
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m		21	▲ 211 1 0	8
	Fuel	%	ASTM D3524		▲ 6.3	<1.0	<1.0
	Water	0/	WC Method	>0.2	NEG	NEG	NEG NEG
	Glycol Soot %	%	*ASTM D2982 *ASTM D7844	. 0	NEG 0.4	NEG 0.1	0.9
	Nitration	Abs/cm	*ASTM D7644		9.9	7.5	11.5
	Sulfation	Abs/.1mm	*ASTM D7024		20.2	17.1	24.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
					• /	4 465	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		31	▲ 499	3
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.	Boron	ppm	ASTM D5185m		9	9	12
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	69	122	75
	Manganese	ppm	ASTM D5185m	450	<1 977	1	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		877 1119	747 1303	385 1642
		ppm				968	873
	Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		980 1242	1227	1150
	Sulfur	ppm	ASTM D5185m ASTM D5185m			3766	3578
	Sullui	ppm	ASTIVI DOTOOTT	4230	3618	3700	3378

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

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

12.4

12.8

10.2

21.3

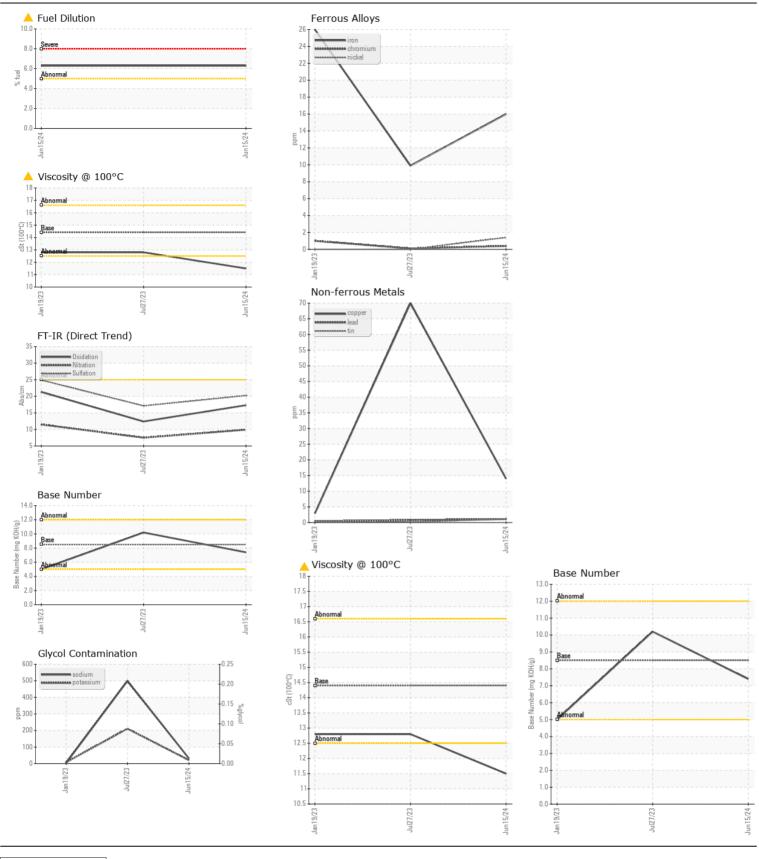
5.0

12.8

17.3

7.4

11.5



Apple Valley Waste - EHT Location Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 6626 Delilah Road : WC0874325 : 01 Jul 2024 Lab Number : 06225461 Tested : 03 Jul 2024 Egg Harbor Township, NJ : 03 Jul 2024 - Don Baldridge US 08234 Unique Number : 11103658 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, TBN) Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

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