

Machine Id L4522 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

	Toot		Mathad	Limit/Alex-	Cumment	Listered	Listor 0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current WC0874313	History1 WC0758919	History2 WC0758901
Resample at the next service interval to monitor. Please specify the	Sample Number Sample Date		Client Info Client Info		03 May 2024	18 Jul 2023	16 Jan 2023
brand, type, and viscosity of the oil on your next sample.	Machine Age	mls	Client Info		73037	6684	6122
	Oil Age	mls	Client Info		0	553	377
	Filter Age	mls	Client Info		0	553	377
	Oil Changed	11115	Client Info		0 Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>80	29	20	18
	Chromium	ppm	ASTM D5185m	>5	2	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>30	6	4	4
	Lead	ppm	ASTM D5185m	>30	<1	<1	1
	Copper	ppm	ASTM D5185m		5	4	2
	Tin	ppm	ASTM D5185m	>5	<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
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	15	9	8
CONTRIMINATION	Potassium	ppm	ASTM D5185m		7	4	3
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.8	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	11.2	10.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.5	21.3
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Codium			. 150	0	C	1
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m		8	6	21
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm	ASTM D5185m		11 2	27 0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		101	82	71
	Manganese	ppm ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1024	110	130
	Calcium	ppm	ASTM D5185m	3000	1752	2130	2040
	Phosphorus	ppm	ASTM D5185m		1439	927	902
	Zinc	ppm	ASTM D5185m		1626	1194	1173
	Sulfur	ppm	ASTM D5185m		4586	4153	4008
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	16.8	16.8
					7.4	10.0	

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

ASTM D445 14.4

Visc @ 100°C cSt

5.6

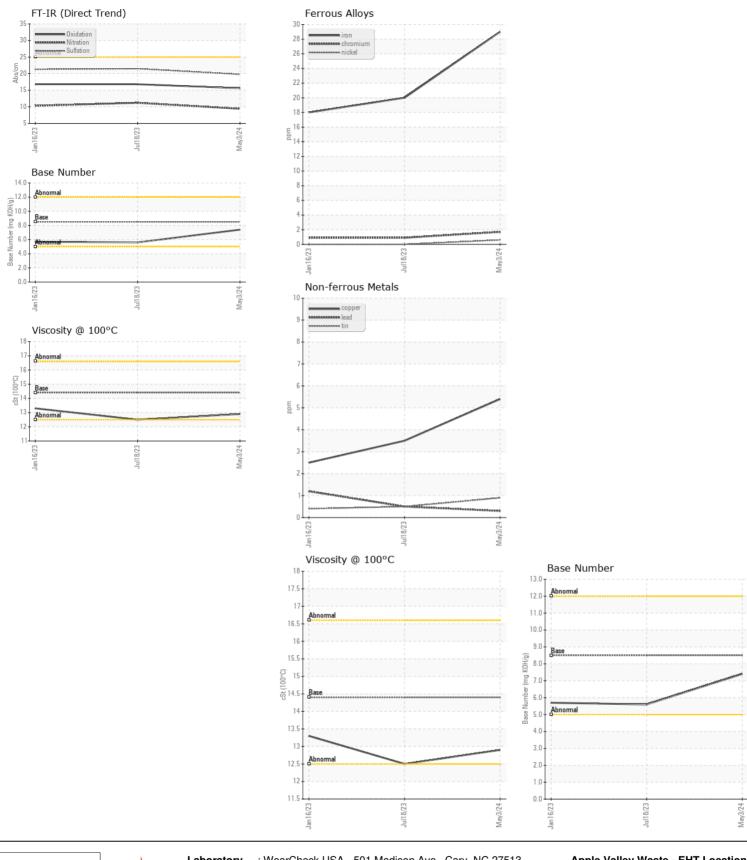
12.5

5.7

13.3

7.4

12.9



Apple Valley Waste - EHT Location Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0874313 Received 6626 Delilah Road : 13 May 2024 Lab Number : 06176807 Tested Egg Harbor Township, NJ : 14 May 2024 Unique Number : 11022860 Diagnosed : 14 May 2024 - Wes Davis US 08234 Test Package : CONST (Additional Tests: 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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