

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Machine Id **77640** Component **Gasoline Engine** Fluid **GASOLINE ENGINE OIL SAE 0W20 (--- QTS)**

# DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

# Wear

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the oil.

# Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0438774	WC0495769	WC0338145
Sample Date		Client Info		14 Aug 2022	25 Oct 2021	31 Aug 2021
Machine Age	mls	Client Info		77595	71000	66146
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	6	6	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m		18	18	19
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	5	3	8
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>155	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	44	38	27
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	100	63	61	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	12	692	668	643
Calcium	ppm	ASTM D5185m	2100	875	874	883
Phosphorus	ppm	ASTM D5185m	650	691	643	651
Zinc	ppm	ASTM D5185m	850	791	754	726
Sulfur	ppm	ASTM D5185m	2500	2212	1797	1819
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	7	8	8
Sodium	ppm	ASTM D5185m	>400	2	3	3
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		13.1	13.0	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	20.9	23.4
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.5	21.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	6.5	4
6:44:45) Rev: 1	Contact/Location: Timothy Dougherty - DOLWIL					

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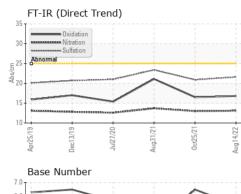


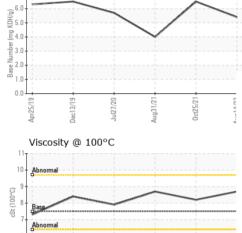
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# **OIL ANALYSIS REPORT**





ug31/21

500

400

300

200

100

100

80

60

40 20

0

300

250

200 la 150

100

50 Π

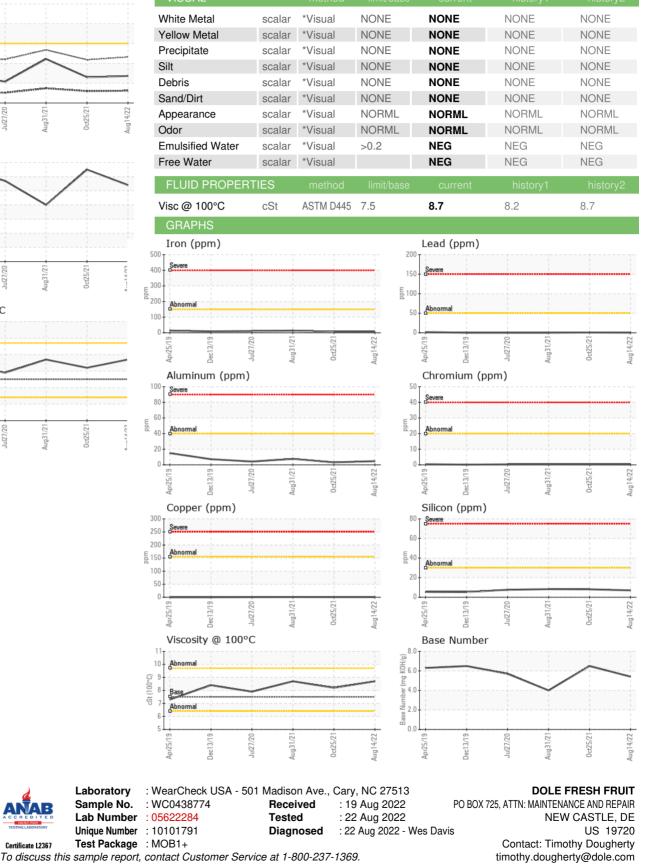
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cSt (100°C) 8

Laboratory

Sample No.



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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