

OIL ANALYSIS REPORT

ODT S

Sample Rating Trend

DIRT



2014 Sienna

Component

Gasoline Engine

PENNZOIL PLATINUM FULL SYNTHETIC 0W20 (6 LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

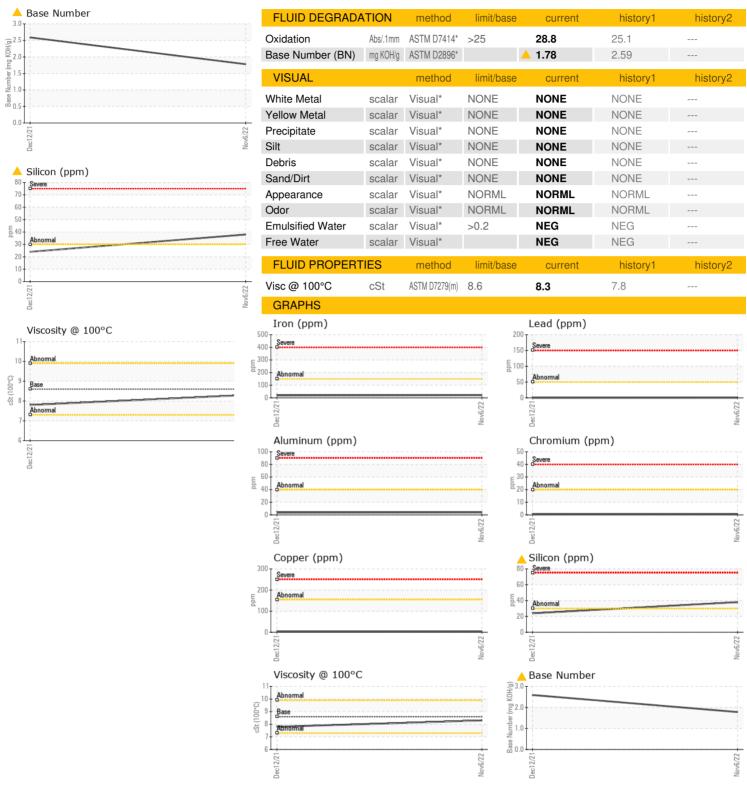
▲ Fluid Condition

The BN level is low. The oil is no longer serviceable.

W20 (6 LTR)			Dec2021	Nov2022		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0763972	WC0763971	
Sample Date		Client Info		06 Nov 2022	12 Dec 2021	
Machine Age	hrs	Client Info		124000	109100	
Oil Age	hrs	Client Info		14900	13700	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	21	19	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)		2	2	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>40	4	4	
Lead	ppm	ASTM D5185(m)	>50	<1	0	
Copper	ppm	ASTM D5185(m)	>155	3	2	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	220	36	36	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	75	69	68	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	650	612	609	
Calcium	ppm	ASTM D5185(m)	925	848	847	
Phosphorus	ppm	ASTM D5185(m)	550	445	482	
Zinc	ppm	ASTM D5185(m)	620	526	546	
Sulfur	ppm	ASTM D5185(m)	2800	2583	2563	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	▲ 38	24	
Sodium	ppm	ASTM D5185(m)	>400	8	8	
Potassium	ppm	ASTM D5185(m)	>20	5	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	15.2	13.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	31.1	30.4	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02577707

: WC0763972 : 5630767

Received Diagnosed

: 23 Aug 2023 : 25 Aug 2023 : Kevin Marson Diagnostician

: MOB 2

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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