

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

602305 - 2023 CHEVY SILVERADO 1500

Gasoline Engine

PETRO CANADA DURON ADVANCED 5W30

DIAGNOSIS

Recommendation

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.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a moderate amount of fuel present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

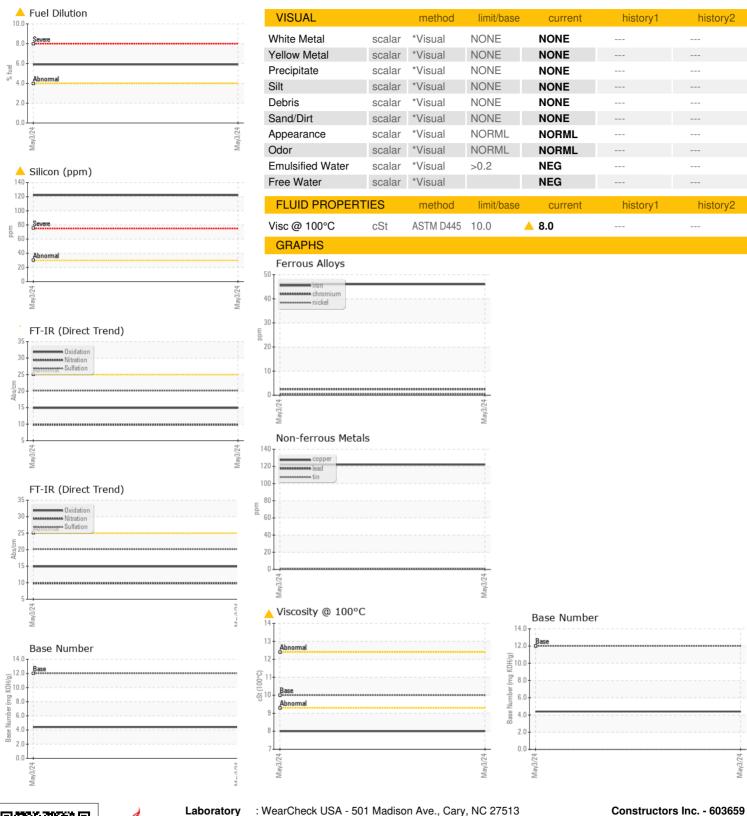
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

0 (GAL)				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007189		
Sample Date		Client Info		03 May 2024		
Machine Age	hrs	Client Info		216		
Oil Age	hrs	Client Info		216		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>150	46		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>40	5		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	122		
Tin	ppm	ASTM D5185m	>10	1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	32		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	43	160		
Manganese	ppm	ASTM D5185m	0	14		
Magnesium	ppm	ASTM D5185m	920	448		
Calcium	ppm	ASTM D5185m	1330	1241		
Phosphorus	ppm	ASTM D5185m	790	635		
Zinc	ppm	ASTM D5185m	880	790		
Sulfur	ppm	ASTM D5185m	2200	1941		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<u> </u>		
Sodium	ppm	ASTM D5185m	>400	5		
Potassium	ppm	ASTM D5185m	>20	12		
Fuel	%	ASTM D3524	>4.0	△ 5.9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	9.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
Base Number (BN)	mg KOH/g	ASTM D2896	12.0	4.4		
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Certificate 12367

Laboratory Sample No.

: SBP0007189 Lab Number : 06178074 Unique Number : 11029400

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 13 May 2024 **Tested** : 17 May 2024 Diagnosed

: 17 May 2024 - Jonathan Hester Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

Contact: Loren Michael

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 st - 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) 1815 Y Street

Lincoln, NE

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