

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id 602307 - 2023 CHEVY SILVERADO 1500

Gasoline Engine Fluid

PETRO CANADA DURON ADVANCED 5W30 (--- GAL)

DIAGNOSIS

Recommendation

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

Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring.

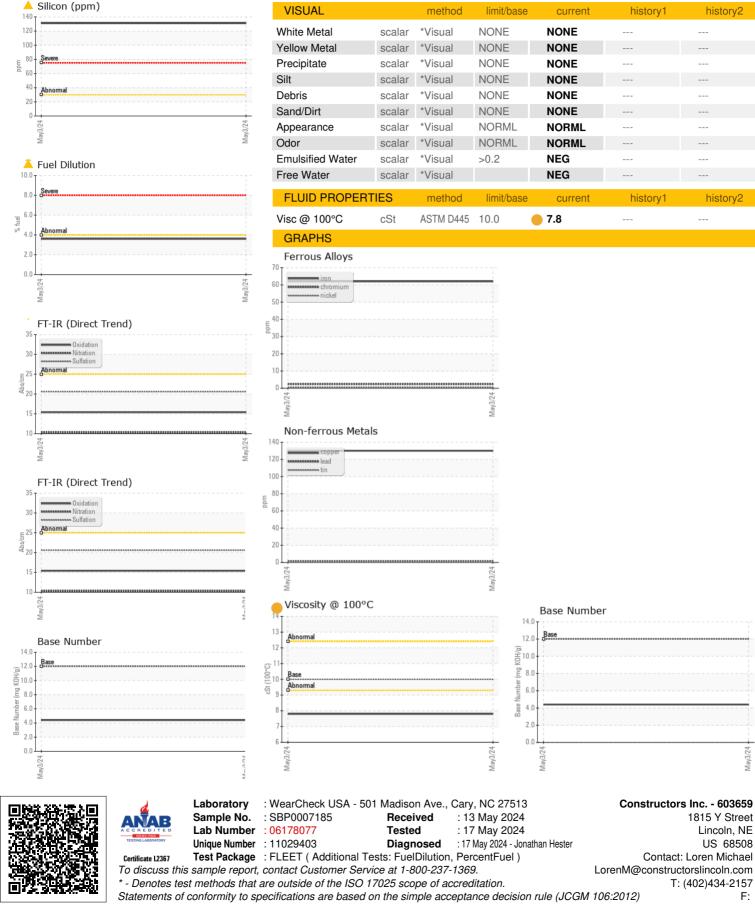
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007185		
Sample Date		Client Info		03 May 2024		
Machine Age	hrs	Client Info		180		
Oil Age	hrs	Client Info		180		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	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	62		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	2 <1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>2	6		
Lead		ASTM D5185m	>40 >50	1		
	ppm		>155	130		
Copper Tin	ppm	ASTM D5185m		130		
Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	1 <1		
	ppm					
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	24		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	43	157		
Manganese	ppm	ASTM D5185m	0	18		
Magnesium	ppm	ASTM D5185m	920	441		
Calcium	ppm	ASTM D5185m	1330	1237		
Phosphorus	ppm	ASTM D5185m	790	635		
Zinc	ppm	ASTM D5185m	880	704		
				791		
Sulfur	ppm	ASTM D5185m	2200	791 1981		
Sulfur CONTAMINANTS		ASTM D5185m method		-		 history2
CONTAMINANTS			2200 limit/base	1981		
CONTAMINANTS Silicon	;	method	2200 limit/base >30	1981 current	 history1	
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	method ASTM D5185m	2200 limit/base >30	1981 current 131	 history1 	 history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m	2200 limit/base >30 >400	1981 current ▲ 131 6	 history1 	 history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	2200 limit/base >30 >400 >20	1981 <u>current</u> ▲ 131 6 12	 history1 	 history2
CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	2200 limit/base >30 >400 >20 >4.0	1981 <u>current</u> ▲ 131 6 12 ▲ 3.6	 history1 	 history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	2200 limit/base >30 >400 >20 >4.0 limit/base	1981 <u>current</u> ▲ 131 6 12 ▲ 3.6 <u>current</u>	 history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	2200 limit/base >30 >400 >20 >4.0 limit/base	1981 current ▲ 131 6 12 ▲ 3.6 current 0	 history1 history1 	 history2 history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 method *ASTM D7844 *ASTM D7624	2200 limit/base >30 >400 >20 >4.0 limit/base	1981 current ▲ 131 6 12 ▲ 3.6 current 0 10.3	 history1 history1 	 history2 history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	2200 limit/base >30 >400 >20 >4.0 limit/base >20 >30	1981	 history1 history1 	 history2 history2



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Report Id: CONLINNE [WUSCAR] 06178077 (Generated: 05/17/2024 09:59:11) Rev: 1

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