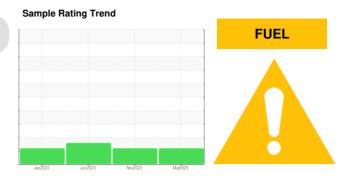


OIL ANALYSIS REPORT

SCHTRUCK 6301 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)



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

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the

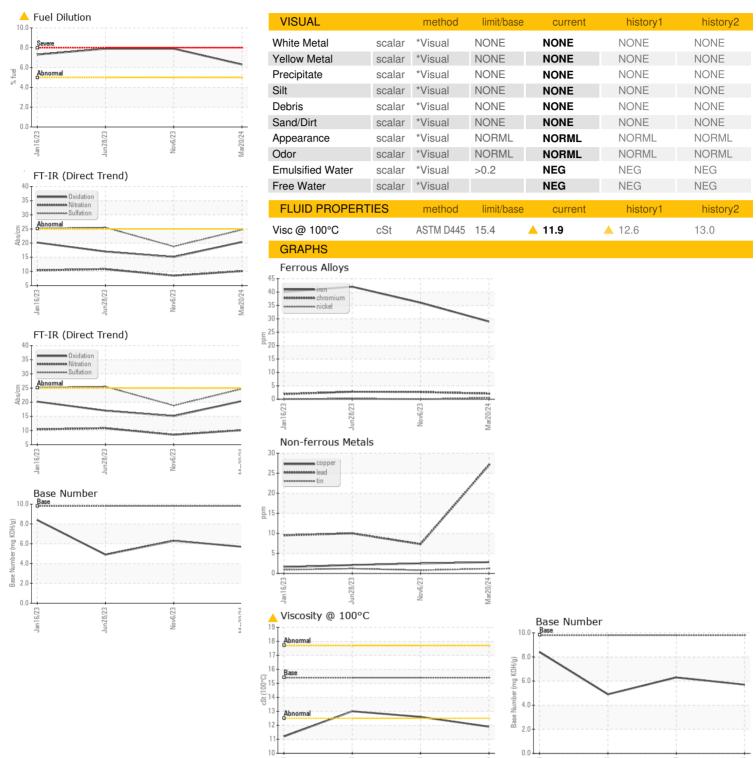
▲ Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006491	SBP0005929	SBP0004696
Sample Date		Client Info		20 Mar 2024	06 Nov 2023	28 Jun 2023
Machine Age	mls	Client Info		573675	551036	529736
Oil Age	mls	Client Info		22639	21300	26245
Oil Changed	11113	Client Info		Changed	Changed	Changed
Sample Status		Client inio		ABNORMAL	ABNORMAL	ABNORMAL
		un nation al	lineit/lenene			
CONTAMINATION		method	limit/base	current	history1	history2
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	>80	29	36	42
Chromium	ppm	ASTM D5185m	>5	2	3	3
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	2
Lead	ppm	ASTM D5185m	>30	27	7	10
Copper	ppm	ASTM D5185m	>150	3	2	2
Tin	ppm	ASTM D5185m	>5	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVEO		and the seal	11		for the second	biotom/0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	current <1	nistory i	0
	ppm ppm		0			
Boron		ASTM D5185m	0	<1	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0 0 60	<1 <1	0	0 2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	<1 <1 58	0 0 52	0 2 55
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	<1 <1 58 <1	0 0 52 <1	0 2 55 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	<1 <1 58 <1 879	0 0 52 <1 850	0 2 55 <1 765
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	<1 <1 58 <1 879 1073	0 0 52 <1 850 1006	0 2 55 <1 765 1056
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	<1 <1 58 <1 879 1073 881	0 0 52 <1 850 1006 887	0 2 55 <1 765 1056 874
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	<1 <1 58 <1 879 1073 881 1138	0 0 52 <1 850 1006 887 1132	0 2 55 <1 765 1056 874 1020
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	<1 <1 58 <1 879 1073 881 1138 2888	0 52 <1 850 1006 887 1132 2615	0 2 55 <1 765 1056 874 1020 2610
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	<1 <1 58 <1 879 1073 881 1138 2888 current	0 0 52 <1 850 1006 887 1132 2615 history1	0 2 55 <1 765 1056 874 1020 2610 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >20	<1 <1 58 <1 879 1073 881 1138 2888 current 4	0 0 52 <1 850 1006 887 1132 2615 history1	0 2 55 <1 765 1056 874 1020 2610 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >20	<1 <1 58 <1 879 1073 881 1138 2888 current 4	0 0 52 <1 850 1006 887 1132 2615 history1 5	0 2 55 <1 765 1056 874 1020 2610 history2 6 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >20	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9	0 0 52 <1 850 1006 887 1132 2615 history1 5 7	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >20 >5	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ▲ 7.9	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 4 7.9 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m	0 0 60 0 1010 1150 1270 2060 limit/base >20 >5 limit/base	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current 2.3	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ▲ 7.9 history1 0.8	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 5 105 105 105 105 105 105 105 105 105
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1150 1270 2060 limit/base >20 >5 limit/base	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ▲ 7.9	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 4 7.9 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	0 0 60 0 1010 1150 1270 2060 limit/base >20 >5 limit/base	<1 <1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current 2.3 10.1	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ▲ 7.9 history1 0.8 8.5 18.8	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 ↑7.9 history2 10.8 25.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m ASTM D78185m ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 method	0 0 0 60 0 1010 1150 1270 2060 limit/base >20 >5 limit/base >3 >20 >3 limit/base	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current 2.3 10.1 24.7 current	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ↑ 7.9 history1 0.8 8.5 18.8 history1	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 √ 7.9 history2 △ 3.6 10.8 25.5 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	0 0 0 60 0 1010 1150 1270 2060 limit/base >20 >5 limit/base >3 >20 >3 limit/base >25	<1 <1 58 <1 879 1073 881 1138 2888 current 4 9 2 ▲ 6.3 current 2.3 10.1 24.7	0 0 52 <1 850 1006 887 1132 2615 history1 5 7 2 ▲ 7.9 history1 0.8 8.5 18.8	0 2 55 <1 765 1056 874 1020 2610 history2 6 5 ↑ 7.9 history2 10.8 25.5



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: SBP0006491 Lab Number : 06156601 Unique Number : 10992024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 22 Apr 2024 **Tested** : 25 Apr 2024 Diagnosed

: 25 Apr 2024 - Don Baldridge Test Package : FLEET (Additional Tests: PercentFuel)

Plattsmouth, NE US 68048 Contact: NICK DOTY doty@liquidtrucking.com T: (402)949-9398

SCHMIDT TRANSPORTATION - 605449

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

Report Id: SCHPLA [WUSCAR] 06156601 (Generated: 04/25/2024 18:49:54) Rev: 1

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