

OIL ANALYSIS REPORT

Area SCHTRUCK 6198 [SCHTRUCK]

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- C

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

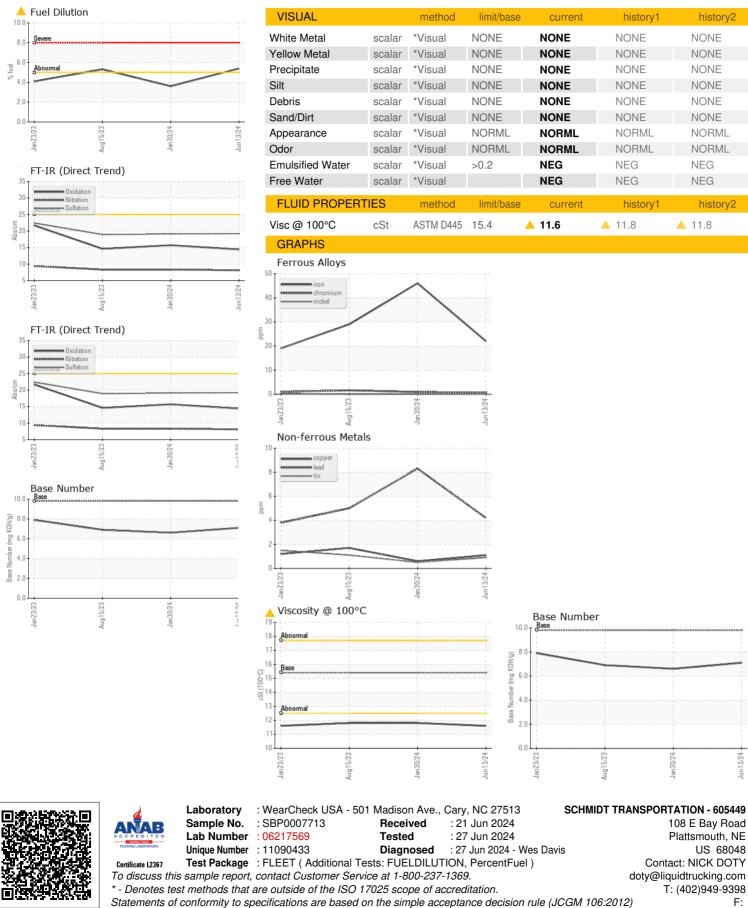
AL)		Jan 202	Janžoz3 Aug2023 Janž024 Janž		n2024	
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007713	SBP0006485	SBP0005088
Sample Date		Client Info		13 Jun 2024	30 Jan 2024	15 Aug 2023
Machine Age	mls	Client Info		357036	333415	310794
Dil Age	mls	Client Info		23621	22621	24115
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	J	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
ron	ppm	ASTM D5185m	>80	22	46	29
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	2	1	2
_ead	ppm	ASTM D5185m	>30	4	8	5
Copper	ppm	ASTM D5185m	>150	1	<1	2
Fin	ppm	ASTM D5185m	>5	<1	<1	1
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Volybdenum	ppm	ASTM D5185m	60	59	57	56
Vanganese	nnm	ASTM D5185m	0	<1		4
	ppm	ASTIVI DOTODITI	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	952	<1 923	<1 913
•						
Calcium	ppm	ASTM D5185m	1010	952	923	913
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	952 1060	923 1008	913 1135
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	952 1060 1064	923 1008 966	913 1135 942
Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	952 1060 1064 1249	923 1008 966 1199	913 1135 942 1146
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	952 1060 1064 1249 3509	923 1008 966 1199 2788	913 1135 942 1146 3314
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	952 1060 1064 1249 3509 current	923 1008 966 1199 2788 history1	913 1135 942 1146 3314 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1010 1070 1150 1270 2060 limit/base	952 1060 1064 1249 3509 current 3	923 1008 966 1199 2788 history1 3	913 1135 942 1146 3314 history2 3
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >20	952 1060 1064 1249 3509 <u>current</u> 3 7	923 1008 966 1199 2788 history1 3 3	913 1135 942 1146 3314 history2 3 7
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >20	952 1060 1064 1249 3509 <u>current</u> 3 7 4	923 1008 966 1199 2788 history1 3 3 3 0	913 1135 942 1146 3314 history2 3 7 4
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1010 1070 1150 1270 2060 limit/base >20 >20 >20	952 1060 1064 1249 3509 <u>current</u> 3 7 4 4 ► 5.4	923 1008 966 1199 2788 history1 3 3 3 0 0	913 1135 942 1146 3314 history2 3 7 4 4 ► 5.3
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	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	1010 1070 1150 1270 2060 limit/base >20 >20 >5 limit/base	952 1060 1064 1249 3509 current 3 7 4 5.4 current	923 1008 966 1199 2788 history1 3 3 0 0 ▲ 3.6 history1	913 1135 942 1146 3314 history2 3 7 4 4 ▲ 5.3 history2
Silicon Sodium Potassium Fuel	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1010 1070 1150 1270 2060 limit/base >20 >20 >5 limit/base >3	952 1060 1064 1249 3509 current 3 7 4 5.4 current 0.7	923 1008 966 1199 2788 history1 3 3 0 ▲ 3.6 history1 0.3	913 1135 942 1146 3314 history2 3 7 4 4 \$.3 bistory2 0.6
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm % %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	1010 1070 1150 1270 2060 imit/base >20 >20 >20 >5 imit/base >3 >20	952 1060 1064 1249 3509 <u>current</u> 3 7 4 5.4 5.4 <u>current</u> 0.7 8.1	923 1008 966 1199 2788 history1 3 3 0 3 0 3 6 1 3 0 0 ▲ 3.6 history1 0.3 8.3	913 1135 942 1146 3314 history2 3 7 4 ▲ 5.3 history2 0.6 8.3
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 *ASTM D7844 *ASTM D7844	1010 1070 1150 22060 2060 >20 >20 >20 >5 Iimit/base >3 >20 >3 >20 >30	952 1060 1064 1249 3509 current 3 7 4 5.4 € current 0.7 8.1 19.2	923 1008 966 1199 2788 history1 3 3 0 ▲ 3.6 history1 0.3 8.3 19.1	913 1135 942 1146 3314 history2 3 7 4 ▲ 5.3 history2 0.6 8.3 18.9

Sample Rating Trend

FUEL



OIL ANALYSIS REPORT



Report Id: SCHPLA [WUSCAR] 06217569 (Generated: 06/30/2024 07:05:32) Rev: 1

Submitted By: CASEY WILKIE

E:

Page 2 of 2