

OIL ANALYSIS REPORT

Sample Rating Trend



Area 020 Machine Id 421077 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

Piston, ring and cylinder wear is indicated.

Contamination

There is no indication of any contamination in the oil.

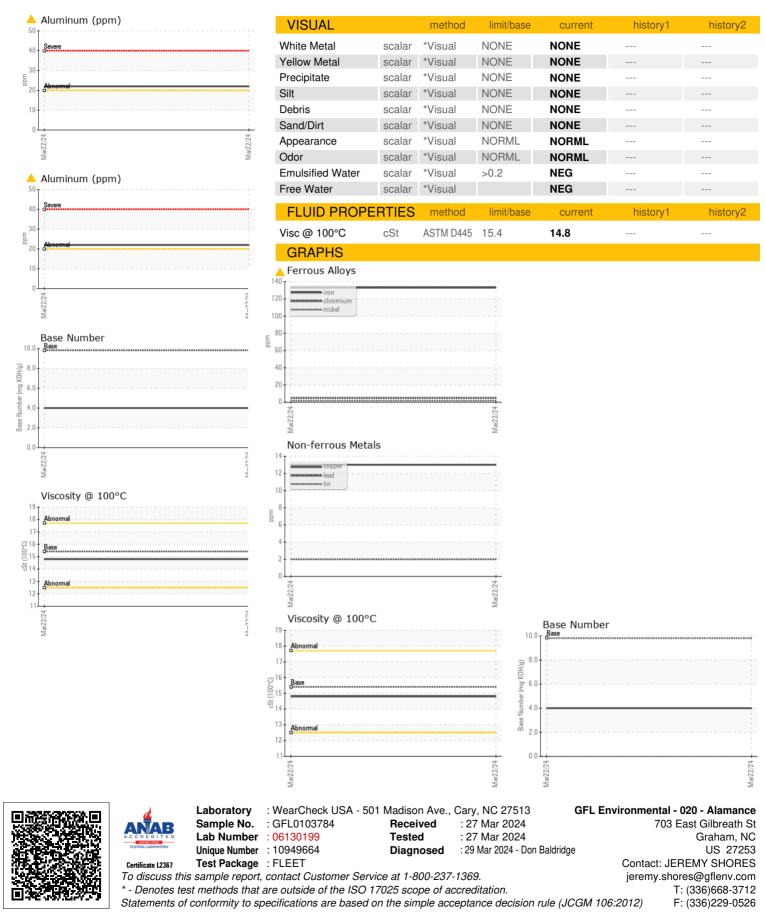
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

NTS)		-		Mar2024		
SAMPLE INFOR		method	limit/base	current	history1	history2
			IIIIII/Dase		history1	Thistory2
Sample Number		Client Info		GFL0103784		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		6423		
Oil Age	hrs	Client Info		615		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	1 33		
Chromium	ppm	ASTM D5185m	>20	5		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
_ead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	13		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12		
Barium	ppm	ASTM D5185m	0	<1		
Volybdenum	ppm	ASTM D5185m	60	98		
Vanganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	1010			
Calcium	nnm		1010	40		
	ppm	ASTM D5185m	1070	40 2451		
Pnospnorus	ppm	ASTM D5185m ASTM D5185m		-		
•			1070	2451		
Zinc	ppm	ASTM D5185m	1070 1150	2451 1196		
Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	1070 1150 1270	2451 1196 1373		
Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1070 1150 1270 2060	2451 1196 1373 3774		
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1070 1150 1270 2060 limit/base	2451 1196 1373 3774 current	 history1	 history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ITS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1070 1150 1270 2060 limit/base	2451 1196 1373 3774 current 23	 history1	 history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	1070 1150 1270 2060 limit/base >25	2451 1196 1373 3774 current 23 8	 history1 	 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1070 1150 1270 2060 limit/base >25 >20	2451 1196 1373 3774 current 23 8 29	 history1 	 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1070 1150 1270 2060 limit/base >25 >20 limit/base	2451 1196 1373 3774 current 23 8 29 current	 history1 history1	 history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	1070 1150 1270 2060 limit/base >25 >20 limit/base >3	2451 1196 1373 3774 current 23 8 29 current 2.3	 history1 history1	 history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ITS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624	1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20	2451 1196 1373 3774 23 23 8 29 current 2.3 17.4	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ITS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624	1070 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20 >30	2451 1196 1373 3774 current 23 8 29 current 2.3 17.4 36.4	 history1 history1 history1	 history2 history2 history2



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Submitted By: JEREMY SHORES