

OIL ANALYSIS REPORT









Area
(BC71104)
345M
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

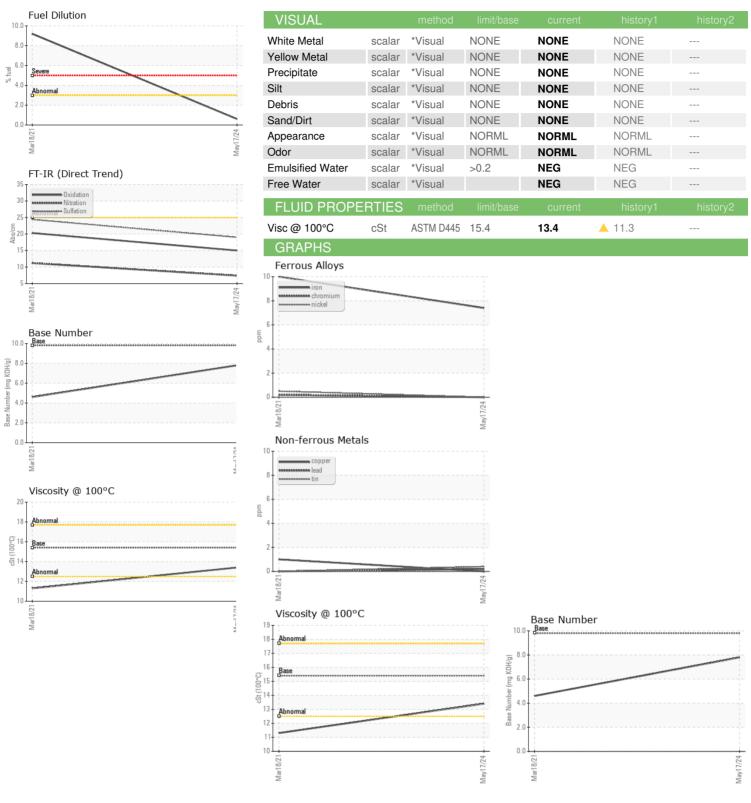
Fluid Condition

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

ON SHP 15W40 (-	GAL)		Mar2021	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101002	GFL0016186	
		Client Info		17 May 2024	18 Mar 2021	
Sample Date	hvo	Client Info		17 May 2024 19386		
Machine Age	hrs	Client Info		19386	19386 19386	
Oil Age	1115	Client Info				
Oil Changed Sample Status		Cilent inio		Changed NORMAL	Changed SEVERE	
·	ION		12 - 24 //			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	7	10	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	4	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	0	1	
Tin	ppm	ASTM D5185m	>15	<1	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	52	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	898	855	
Calcium	ppm	ASTM D5185m	1070	978	971	
Phosphorus	ppm	ASTM D5185m	1150	968	911	
Zinc	ppm	ASTM D5185m	1270	1178	1047	
Sulfur	ppm	ASTM D5185m	2060	3263	2082	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	
Sodium	ppm	ASTM D5185m		4	7	
Potassium	ppm	ASTM D5185m	>20	<1	12	
Fuel	%	ASTM D3524	>3.0	0.6	9 .2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	11.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	24.4	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	20.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	4.6	
Dase Nulliber (DIN)	mg NOn/g	70 INI DZ030	3.0	1.0	4.0	



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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101002 Lab Number : 06188900

Unique Number : 11045652

Received : 23 May 2024 **Tested** Diagnosed

: 28 May 2024 : 28 May 2024 - Wes Davis

Test Package : FLEET (Additional Tests: PercentFuel)

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. mwomble@gflenv.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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