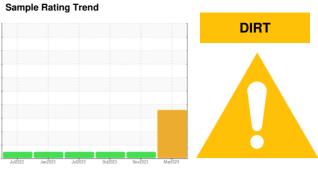


OIL ANALYSIS REPORT



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



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring.

Fluid Condition

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

SAMPLE INFORI Sample Number Sample Date Machine Age Oil Age Oil Changed	MATION					
Sample Date Machine Age Oil Age Oil Changed		method	limit/base	current	history1	history2
Machine Age Oil Age Oil Changed		Client Info		GFL0085520	GFL0023442	GFL0085527
Oil Age Oil Changed		Client Info		20 Mar 2024	20 Nov 2023	09 Oct 2023
Oil Changed	hrs	Client Info		24339	23787	23312
-	hrs	Client Info		500	0	0
-		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	4	7
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	1	4
_ead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	0	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
√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	3	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	52	57
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	811	782	812
Calcium	ppm	ASTM D5185m	1070	1036	952	1073
Phosphorus	ppm	ASTM D5185m	1150	903	945	971
Zinc	ppm	ASTM D5185m	1270	1179	1106	1190
Sulfur	ppm	ASTM D5185m	2060	3066	3110	3224
CONTAMINAN	ITS	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	2 9	4	4
	ppm	ASTM D5185m		2	0	3
Silicon	ppiii				0	3
Silicon Sodium	ppm	ASTM D5185m	>20	5	2	2
Silicon Sodium Potassium		ASTM D5185m ASTM D3524	>20 >3.0	5 ▲ 2.8		
Silicon Sodium Potassium	ppm				2	2
Silicon Sodium Potassium Fuel INFRA-RED	ppm	ASTM D3524	>3.0	<u>2.8</u>	2 <1.0	2 <1.0
Sillicon Sodium Potassium Fuel INFRA-RED Soot %	ppm %	ASTM D3524 method	>3.0 limit/base >4	2.8 current	2 <1.0 history1	2 <1.0 history2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm %	ASTM D3524 method *ASTM D7844	>3.0 limit/base >4	2.8 current 0.6	2 <1.0 history1 0.5	2 <1.0 history2 0.9
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm % % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>3.0 limit/base >4 >20	2.8 current 0.6 9.1	2 <1.0 history1 0.5 8.0	2 <1.0 history2 0.9 8.7
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm % % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>3.0 limit/base >4 >20 >30	▲ 2.8 current 0.6 9.1 18.3	2 <1.0 history1 0.5 8.0 17.6	2 <1.0 history2 0.9 8.7 19.7



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06134689 Unique Number : 10954154

: GFL0085520

Received **Tested** Diagnosed

: 01 Apr 2024 : 04 Apr 2024

: 08 Apr 2024 - Don Baldridge

2045 LEE HWY Cloverdale, VA US 24077

Contact: DELBERT BEASLEY

Test Package: FLEET (Additional Tests: FuelDilution, 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.

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

Report Id: GFL660R [WUSCAR] 06134689 (Generated: 04/09/2024 07:06:11) Rev: 1

Contact/Location: DELBERT BEASLEY - GFL660R

T:

F: