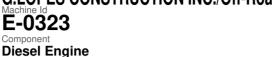
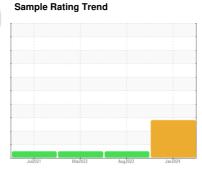


OIL ANALYSIS REPORT





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





DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

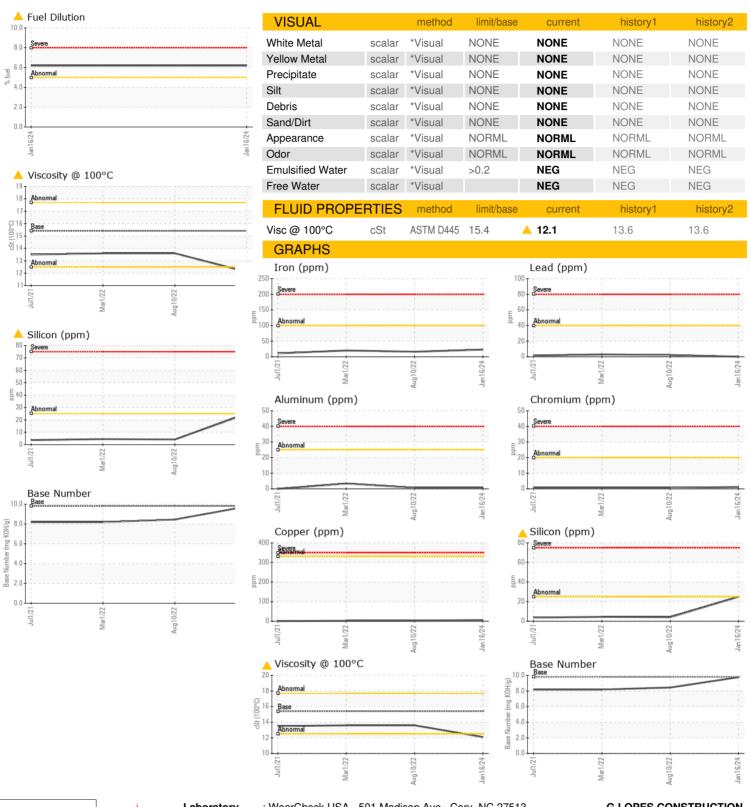
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

N SHP 15W4U (- GAL)	Jul202	1 Mar2022	Aug ² 022 Ja	m2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109745	PCA0066753	PCA0066455
Sample Date		Client Info		16 Jan 2024	10 Aug 2022	01 Mar 2022
Machine Age	hrs	Client Info		10147	8289	8289
Oil Age	hrs	Client Info		8653	7813	476
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	23	16	20
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
lickel	ppm	ASTM D5185m	>2	0	<1	<1
itanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		<1	<1	3
_ead	ppm	ASTM D5185m	>40	<1	2	3
		ASTM D5185m		6	4	2
Copper	ppm			_		
Γin · · ·	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				<1
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	9	9
Barium	ppm	ASTM D5185m	0	<1	<1	0
/lolybdenum	ppm	ASTM D5185m	60	62	69	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1026	992	1148
Calcium	ppm	ASTM D5185m	1070	1115	1152	1274
Phosphorus	ppm	ASTM D5185m	1150	1059	1018	1184
Zinc	ppm	ASTM D5185m	1270	1290	1301	1519
Sulfur	ppm	ASTM D5185m	2060	3138	2845	2774
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	△ 25	4	4
Sodium	ppm	ASTM D5185m		11	9	2
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Fuel	%	ASTM D3524	>5	<u> </u>	<1.0	<1.0
		method	limit/base	current	history1	history2
INFRA-RED						
	%	*ASTM D7844	>3	0.6	0.5	0.4
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.6 8.4	0.5 10.9	
Soot % Nitration						0.4 10.1 23.0
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	8.4	10.9	10.1
Goot % Nitration Gulfation FLUID DEGRAL	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	8.4 19.5 current	10.9 24.7 history1	10.1 23.0 history2
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.4 19.5	10.9 24.7	10.1 23.0



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: PCA0109745 : 06065844 : 10842521

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024 Diagnosed : 23 Jan 2024 Diagnostician : Sean Felton

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

G LOPES CONSTRUCTION

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

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F: