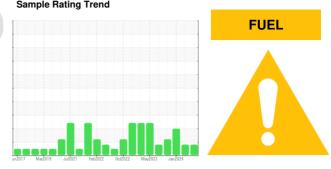


OIL ANALYSIS REPORT

Sample Rating Trend



PETRO CANADA DURON SHP 15W40 (20 LTR)



	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0124682	GFL0110682	GFL0102729
been	Sample Date		Client Info		09 Jul 2024	18 Apr 2024	31 Jan 2024
to	Machine Age	hrs	Client Info		18449	17878	13291
commended	Oil Age	hrs	Client Info		600	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	SEVERE
	CONTAMINAT	ION	method	limit/base	current	history1	history2
ontaminants	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	2 U.L	NEG	NEG	NEG
	WEAR METAL	C	method	limit/base		history1	history2
r the time in							
	Iron	ppm	ASTM D5185(m)	>75	34	33	25
	Chromium	ppm	ASTM D5185(m)	>5	1	1	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>15	4	3	2
	Lead	ppm	ASTM D5185(m)	>25	0	0	<1
	Copper	ppm	ASTM D5185(m)	>100	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>4	0	0	0
	Antimony	ppm	ASTM D5185(m)		0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Beryllium	ppm	ASTM D5185(m)		0	0	0
	Cadmium	ppm	ASTM D5185(m)		0	0	0
			and the second	limit/base	current	history1	history2
	ADDITIVES		method				
	ADDITIVES Boron	ppm	ASTM D5185(m)	0	2	3	1
		ppm ppm	ASTM D5185(m)			3 0	1 0
	Boron Barium	ppm			2		
	Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60	2 0	0 53	0
	Boron Barium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 60	2 0 58	0	0 51
	Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010	2 0 58 <1	0 53 <1	0 51 0
	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070	2 0 58 <1 941 996	0 53 <1 881	0 51 0 842
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150	2 0 58 <1 941 996 994	0 53 <1 881 948 884	0 51 0 842 958 876
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 1270	2 0 58 <1 941 996 994 1187	0 53 <1 881 948 884 1076	0 51 0 842 958 876 1047
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150	2 0 58 <1 941 996 994	0 53 <1 881 948 884	0 51 0 842 958 876
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 1270	2 0 58 <1 941 996 994 1187 2438 <1	0 53 <1 881 948 884 1076 2152	0 51 0 842 958 876 1047 2286
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 1270 2060 limit/base	2 0 58 <1 941 996 994 1187 2438 <1 current	0 53 <1 881 948 884 1076 2152 <1 <1 history1	0 51 0 842 958 876 1047 2286 <1 <1 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0 60 0 1010 1070 1150 1270 2060	2 0 58 <1 941 996 994 1187 2438 <1 current 5	0 53 <1 881 948 884 1076 2152 <1 <1 history1 6	0 51 0 842 958 876 1047 2286 <1 2286 <1 history2 5
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm yts	ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 1270 2060 limit/base >25	2 0 58 <1 941 996 994 1187 2438 <1 2438 <1 <i>current</i> 5 9	0 53 <1 881 948 884 1076 2152 <1 <1 history1 6 8	0 51 0 842 958 876 1047 2286 <1 2286 <1 history2 5 7
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20	2 0 58 <1 941 996 994 1187 2438 <1 2438 <1 <u>current</u> 5 9 4	0 53 <1 881 948 884 1076 2152 <1 <1 history1 6 8 2	0 51 0 842 958 876 1047 2286 <1 * history2 5 7 2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm yts	ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 2060 limit/base >25 >20 >20	2 0 58 <1 941 996 994 1187 2438 <1 2438 <1 <i>current</i> 5 9 4 4 ▲ 1.2	0 53 <1 881 948 884 1076 2152 <1 history1 6 8 2 2 k 5.3	0 51 0 842 958 876 1047 2286 <1 kistory2 5 7 2 2 2 2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm vTS ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 60 1010 1070 1150 1270 2060 limit/base >25 >20 >20 >3.0	2 0 58 <1 941 996 994 1187 2438 <1 <i>current</i> 5 9 4 4 <i>t</i> .2 <i>current</i>	0 53 <1 881 948 884 1076 2152 <1 history1 6 8 2 2 ▲ 5.3 history1	0 51 0 842 958 876 1047 2286 <1 history2 5 7 2 2 ▲ 7.6
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 60 0 1010 1070 1150 2060 limit/base >25 >20 >20	2 0 58 <1 941 996 994 1187 2438 <1 2438 <1 <i>current</i> 5 9 4 4 ▲ 1.2	0 53 <1 881 948 884 1076 2152 <1 history1 6 8 2 2 k 5.3	0 51 0 842 958 876 1047 2286 <1 × history2 5 7 2 2 ×

DIAGNOSIS

Recommendation

The oil change at the time of sampling noted. Resample at the next service in monitor. No other corrective action is at this time.

Wear

All component wear rates are normal.

Contamination

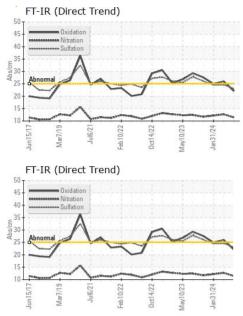
Light fuel dilution occurring. No other were detected in the oil.

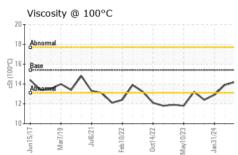
Fluid Condition

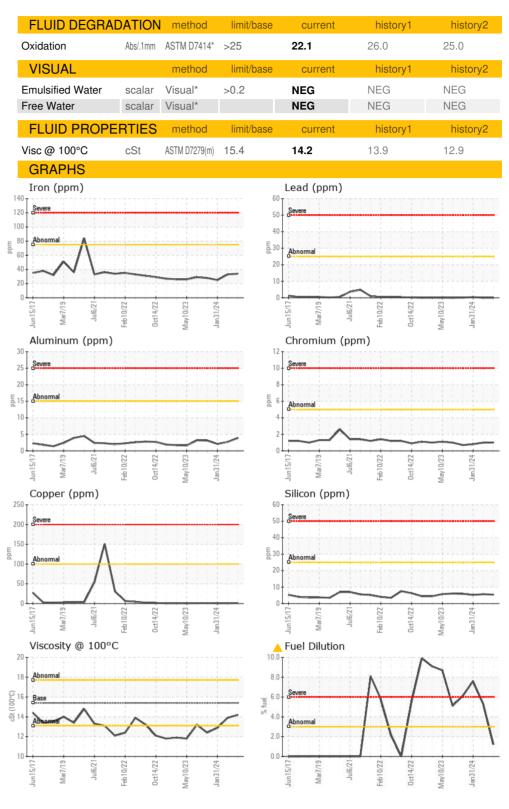
The condition of the oil is acceptable service.



OIL ANALYSIS REPORT







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0124682 Received : 11 Jul 2024 Lab Number : 02647300 Tested : 12 Jul 2024 ISO 17025:2017 Accredited Unique Number : 5812852 Diagnosed : 12 Jul 2024 - Wes Davis Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

GFL Environmental - 207 - Pickering SW 1034 TOY AVENUE, PICKERING YARD PICKERING, ON s CA L1W 3P1 Contact: lan Patton ipatton@gflenv.com T: (905)831-6297 F: (905)426-3577

Report Id: GFL207 [WCAMIS] 02647300 (Generated: 07/12/2024 14:48:28) Rev: 1

Submitted By: Shane Cater Page 2 of 2