

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

7112 Component Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (22 LTR)

Resample at the next service interval to monitor.

RECOMMENDATION

WEAR

All component wear rates are normal.

CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122314	GFL0107122	WC0875100
Sample Date		Client Info		14 May 2024	19 Jan 2024	27 Nov 2023
Machine Age	hrs	Client Info		13436	12479	12336
Oil Age	hrs	Client Info		600	0	220
Filter Age	hrs	Client Info		600	0	220
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
			75		40	
Iron	ppm	ASTM D5185(m)	>/5	29	40	45
Chromium	ppm	ASTM D5185(m)	>5	<1	-	2
Titonium	ppm	ASTM D5185(m)	>4	<1	<1	< 1
Litanium	ppm		>2	0	0	1
Sliver	ppm		>2	0	0	<
Aluminum	ppm	ASTM D5185(m)	>15	9	10	1
Lead	ppm	ASTM D5185(m)	>25	0	<	<
Copper	ppm	ASTM D5185(m)	>100	<1	<	1
i in	ppm	ASTM D5185(m)	>4	0	0	0
vanadium	ppm	ASTM D5185(m)		U 	0	0
Silicon	ppm	ASTM D5185(m)	>25	4	4	7
Potassium	ppm	ASTM D5185(m)	>20	13	13	9
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.6	1
Nitration	Abs/cm	ASTM D7624*	>20	9.7	9.6	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	21.1	23.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		5	5	5
Boron	ppm	ASTM D5185(m)	0	19	16	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	63	60	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	928	925	962
Calcium	ppm	ASTM D5185(m)	1070	1073	1059	1089
Phosphorus	ppm	ASTM D5185(m)	1150	1022	1013	1003
Zinc	ppm	ASTM D5185(m)	1270	1211	1177	1234
Sulfur	ppm	ASTM D5185(m)	2060	2486	2648	2387
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	16.6	19.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.3	14.6







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CULCINI

Jan 19/24

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CALA Sample No. : GFL0122314 Received : 17 May 2024 Lab Number : 02636250 : 17 May 2024 Tested ISO 17025:2017 Accredited Unique Number : 5785412 : 17 May 2024 - Wes Davis Diagnosed Laboratory Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

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.

Report Id: GFL217 [WCAMIS] 02636250 (Generated: 05/17/2024 12:51:36) Rev: 1

Laboratory

Submitted By: Scott Ewan Page 2 of 2