

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Current

GFL0113228

History1

History2

GFL0071298 GFL0057683

Limit/Abn

UOM

Method

Client Info

Test

Sample Number

Machine Id 723001 Component Diesel Engine

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

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

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.

	Sample Date		Client Info		15 Apr 2024	13 Mar 2023	28 Sep 2022
	Machine Age	hrs	Client Info		18724	19666	20649
	Oil Age	hrs	Client Info		596	596	1101
	Filter Age	hrs	Client Info		596	596	1101
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
				100	10		
	Chromium	ppm	ASTM D5105(III)	>120	19	23	.1
	Niekol	ppm	AGTM D5105(III)	>20	< I 1	<1	<1
	Titonium	ppm	ASTM D5185(m)	>0	-1	ے 1	-1
	Silvor	ppm	ASTM D5105(III)	>2	<1	0	0
	Aluminum	ppm	ACTM DE105(m)	>2	0	4	4
	Auminum	ppm	AGTM D5105(III)	>20	4	4	4
	Coppor	ppm	ASTM D5185(m)	>40	4	<u>ک</u>	4
	Tin	ppm	ASTM D5185(m)	>000	4	-1	-1
	Vanadium	nom	ASTM D5185(m)	>15	0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	5	4	4
	Potassium	ppm	ASTM D5185(m)	>20	6	0	<1
	Fuel		WC Method	>3.0	<1.0	<1.0	1.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>4	0.6	0.8	0.7
	Nitration	Abs/cm	ASTM D7624*	>20	10.5	10.6	9.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.8	24.9	22.6
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		8	5	6
	Boron	ppm	ASTM D5185(m)	0	28	2	3
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	7	59	58
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	113	927	915
	Calcium	ppm	ASTM D5185(m)	1070	2098	1105	1097
	Phosphorus	ppm	ASTM D5185(m)	1150	907	1023	975
	Zinc	ppm	ASTM D5185(m)	1270	1111	1162	1149
	Sulfur	ppm	ASTM D5185(m)	2060	2661	2308	2268
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	18.9	17.8
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	12.9	12.8

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Submitted By: Dave Varga Page 1 of 2







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0113228 Received : 16 Apr 2024 Lab Number : 02629127 Tested : 16 Apr 2024 ISO 17025:2017 Accredited : 16 Apr 2024 - Wes Davis Unique Number : 5762259 Diagnosed Laboratory Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131.

Jul27/21

11

Jun17/20

Nov20/20 Mar15/21 Mav20/21

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.

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009 F: