

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

## Machine Id **EX-11** Component **Diesel Engine** Fluid **PETRO CANADA DURON HP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		KFS0006014	KFS0004078	KFS0002898
	Sample Date		Client Info		06 May 2024	24 Feb 2024	21 Nov 2023
	Machine Age	hrs	Client Info		11971	11534	11022
	Oil Age	hrs	Client Info		0	0	11022
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	35	40	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	1	1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		1	2	2
	Copper	ppm	ASTM D5185m		27	100	<u> </u>
	Tin	ppm	ASTM D5185m		1	2	2
	Vanadium	ppm	ASTM D5185m	210	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 25	13	1.4	23
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	14 <1	7
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	0.6	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624		10.9	10.2	9.8
	Sulfation	Abs/.1mm	*ASTM D7024		22.6	20.9	21.3
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		3	2	3
	Boron	ppm	ASTM D5185m		<1	3	27
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		59	51	30
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		889	802	435
	Calcium	ppm	ASTM D5185m		1075	1103	1469
	Phosphorus	ppm	ASTM D5185m		974	885	772
	Zinc	ppm	ASTM D5185m		1179	1107	1089
	Sulfur	ppm	ASTM D5185m		3138	3899	3332
	Oxidation	Abs/.1mm	*ASTM D7414		19.4	18.6	17.6
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.73	9.10	9.14
	Vier @ 10000	- 0+	AOTA DAAF	4 5 0	1 10 0	10.4	10 5

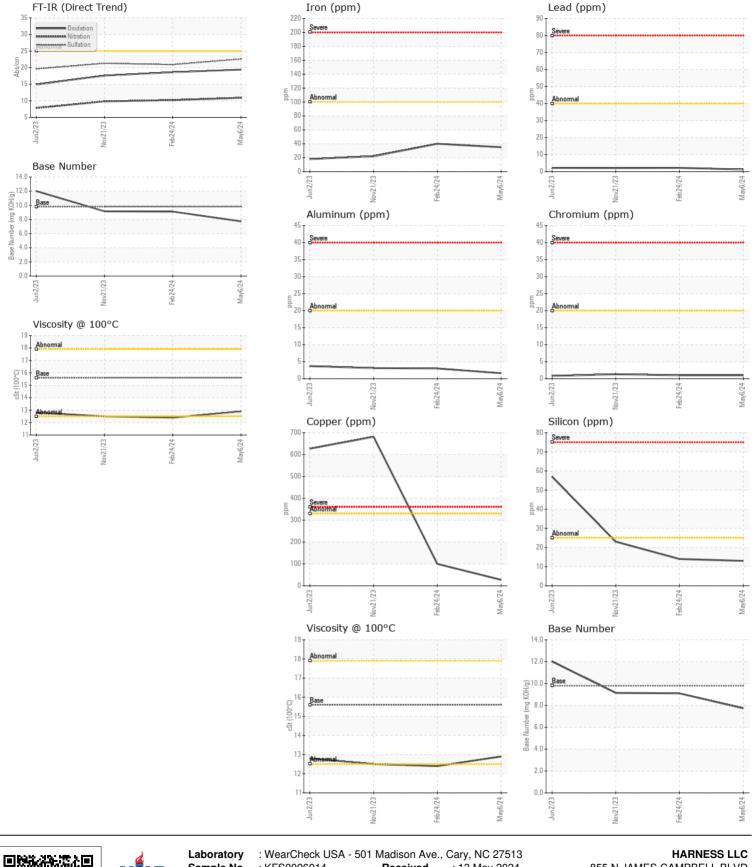
Visc@100°C cSt

12.5

12.4

12.9

ASTM D445 15.6



Sample No. : KFS0006014 855 N JAMES CAMPBELL BLVD Received : 13 May 2024 Lab Number : 06177888 COLUMBIA, TN Tested : 14 May 2024 Unique Number : 11029214 : 14 May 2024 - Wes Davis US 38401 Diagnosed Test Package : MOB 2 Contact: BEN HARNESS Certificate L2367 ben@slectharness.com 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. T: (615)733-4480 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: BILL ENYART Page 2 of 2