

Machine Id

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

423016 Component Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0085511	GFL0085539	GFL0085587
	Sample Date		Client Info		18 Jun 2024	15 Apr 2024	15 Dec 2023
	Machine Age	hrs	Client Info		26219	26145	26071
	Oil Age	hrs	Client Info		26219	0	600
	Filter Age	hrs	Client Info		0	0	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	4	4	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	<1	3
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m		<1	2	0
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	215	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visual	NONL		NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	3	8
There is no indication of any contention in the cil	Potassium	ppm	ASTM D5185m	>20	2	0	2
There is no indication of any contamination in the oil.	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	>4	0.1	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.1	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	17.2	19.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	3
	Boron	ppm	ASTM D5185m	0	11	4	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		55	58	56
	Manganese	ppm	ASTM D5185m		<1	1	0
	Magnesium	ppm	ASTM D5185m		879	927	887
	Calcium	ppm	ASTM D5185m		1209	1051	993
	Phosphorus	ppm	ASTM D5185m		1085	1068	1032
	Zinc	ppm	ASTM D5185m		1323	1251	1244
	Sulfur					3653	2927
	Oxidation	ppm Abs/.1mm	ASTM D5185m *ASTM D7414		3878		
					12.4	13.5	15.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.0	8.4	9.2	6.5

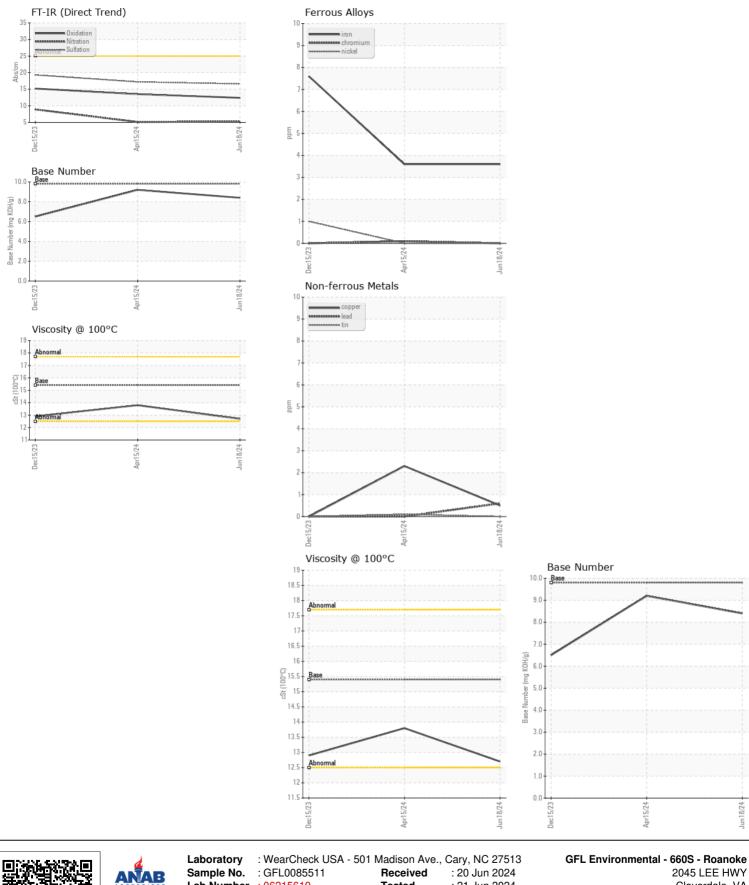
Visc @ 100°C cSt

ASTM D445 15.4

12.9

13.8

12.7



Lab Number : 06215610 Tested : 21 Jun 2024 Cloverdale, VA Unique Number : 11088474 Diagnosed : 21 Jun 2024 - Wes Davis US 24077 Test Package : FLEET Contact: DELBERT BEASLEY Certificate L2367 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: