

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(GJL4700) Machine Id 425060 Component

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. (Customer Sample Comment: Engine oil sample)	Sample Number		Client Info Client Info		GFL0125233 17 Jun 2024	GFL0100469 27 Nov 2023	GFL0083488
	Sample Date Machine Age	mlo	Client Info		385655	383289	10 Aug 2023 380124
	Oil Age	mls	Client Info		385655	383289	21181
	Filter Age	mls mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	8	4	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	2	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		28	1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	4	3	5
	Potassium	ppm	ASTM D5185m		3	1	<1
	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	0.2	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.8	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.8	18.6
	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 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		4	<1	4
	Boron	ppm		0	6	12	0
	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m	60	59	50	59
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	955	687	980
	Calcium	ppm	ASTM D5185m	1070	1091	1212	1095
	Phosphorus	ppm	ASTM D5185m	1150	1090	811	1009
	Zinc	ppm	ASTM D5185m	1270	1257	982	1225
	Sulfur	ppm	ASTM D5185m	2060	3762	3956	3558
	Oxidation	Abs/.1mm	*ASTM D7414		14.2	15.8	15.1
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	8.5	7.0
		- 0+		4 5 4			40.0

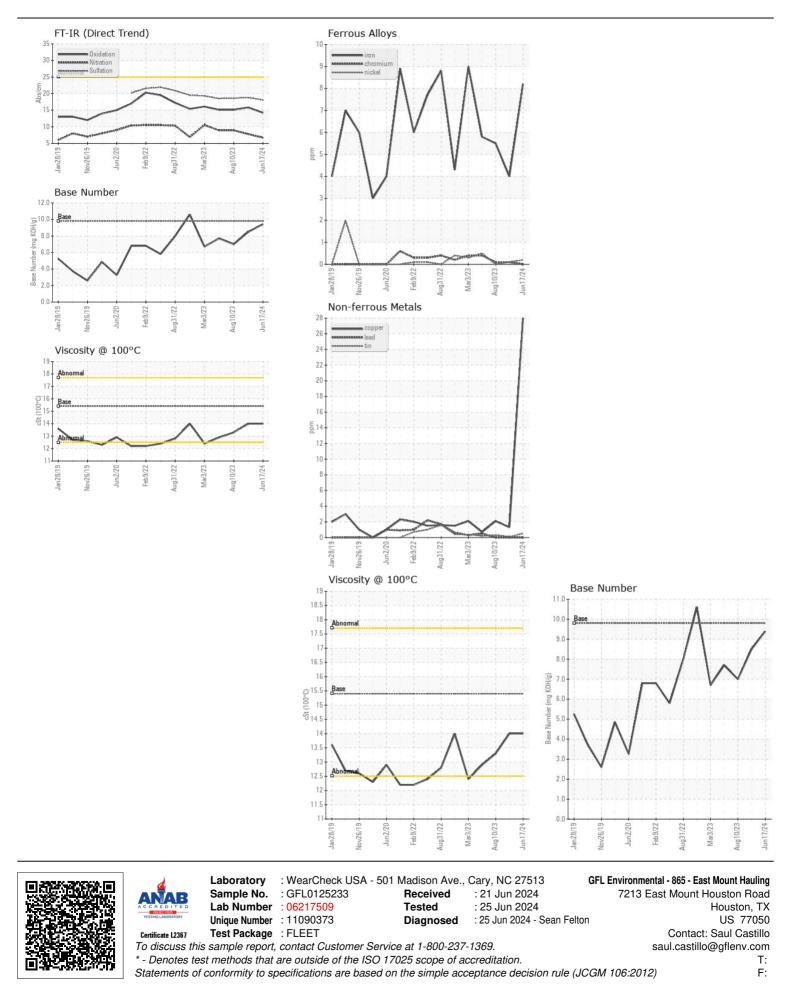
Visc @ 100°C cSt

ASTM D445 15.4

14.0

13.3

14.0



Submitted By: TECHNICIAN ACCOUNT Page 2 of 2