

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(QB17790) Machine Id 827061-252 Component Diesel Engine Fluid

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

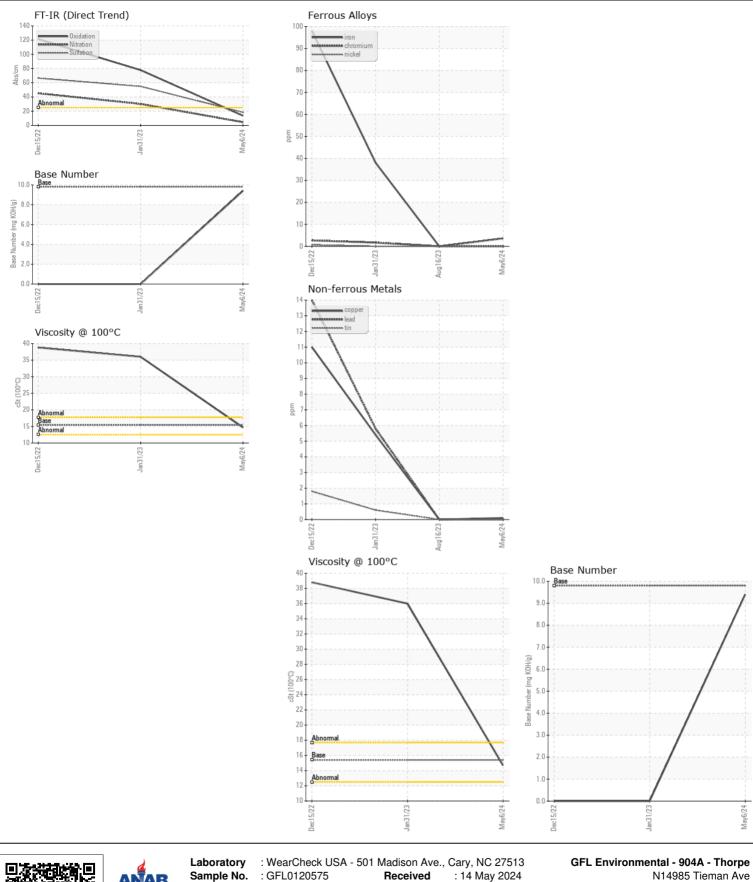
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0120575	GFL0066040	GFL0060344
Resample at the next service interval to monitor.	Sample Date		Client Info		06 May 2024	16 Aug 2023	31 Jan 2023
	Machine Age	hrs	Client Info		0	0	11267
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	ATTENTION	SEVERE
WEAR	Iron	ppm	ASTM D5185m	<120	4	0	38
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	2
	Nickel		ASTM D5185m		0	0	0
	Titanium	ppm ppm	ASTM D5185m		0	0	<1
	Silver		ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		۰ <1	1	2
		ppm			<1 0		
	Lead	ppm	ASTM D5185m		-	0	6
	Copper	ppm	ASTM D5185m		<1	0	5
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	0	4
	Potassium	ppm	ASTM D5185m	>20	0	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	0.2		▲ 8.4
	Nitration	Abs/cm	*ASTM D7624	>20	4.4		30.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3		54.8
	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
	Sodium				 0	0	0
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	0	2	0	3
The BN result indicates that there is suitable alkalinity remaining in the		ppm	ASTM D5185m		4	0	20
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	0	50
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		991	0	511
	Calcium	ppm	ASTM D5185m		1123	0	1005
	Phosphorus	ppm	ASTM D5185m		1041	0	695
	Zinc	ppm	ASTM D5185m		1230	0	874
	Sulfur	ppm	ASTM D5185m		3858	5	2197
	Oxidation	Abs/.1mm	*ASTM D7414		13.5		77.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4		▲ 0.0

Visc @ 100°C cSt

14.7

ASTM D445 15.4

▲ 36.0



Thorp, WI Lab Number : 06178344 Tested : 14 May 2024 Unique Number : 11029670 Diagnosed : 14 May 2024 - Wes Davis US 54771 Test Package : FLEET Contact: Andy Kane Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. akane@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (715)202-3420 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL904A [WUSCAR] 06178344 (Generated: 05/14/2024 18:33:36) Rev: 1

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane Page 2 of 2

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