

OIL ANALYSIS REPORT

Sample Rating Trend



429031-402477

Diesel Engine

Machine Id

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

DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0123035	GFL0119415	GFL0110911
esample at the next service interval to monitor.	Sample Date		Client Info		24 May 2024	01 May 2024	22 Feb 2024
/ear	Machine Age	hrs	Client Info		11646	11615	11452
ll component wear rates are normal.	Oil Age	hrs	Client Info		0	11753	11753
Contamination There is no indication of any contamination in the oil.	Oil Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bil is suitable for further service.	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
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	7	3
	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		<1	<1	0
	Aluminum	ppm	ASTM D5185m		3	3	2
	Lead	ppm	ASTM D5185m		0	2	<1
	Copper	ppm	ASTM D5185m		3	3	2
	Tin	ppm	ASTM D5185m		<1	2	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	2	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	13	8	16
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		60	57	58
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		925	1032	899
	Calcium	ppm	ASTM D5185m		1049	1168	994
	Phosphorus	ppm	ASTM D5185m		1003	1106	1008
	Zinc	ppm	ASTM D5185m		1196	1323	1200
	Sulfur	ppm	ASTM D5185m		3306	3762	2957
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	3
	Sodium	ppm	ASTM D5185m		4	5	2
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.2	0.1
	Nitration		*ASTM D7624		7.2	6.9	5.7
	Sulfation	Abs/.1mm			19.0	18.7	18.0
	FLUID DEGRA			limit/base		history1	history2
	Oxidation		*ASTM D7414		15.3	15.0	14.5
			AGTIM D7414		10.0	7.0	14.5

Base Number (BN) mg KOH/g ASTM D2896 9.8

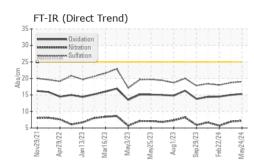
7.7

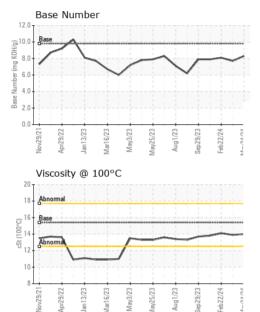
8.1

8.3

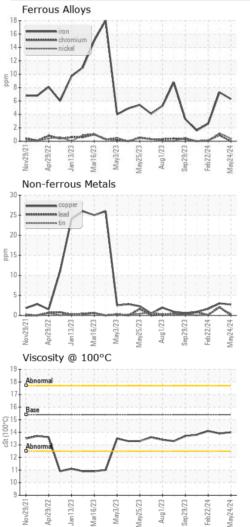


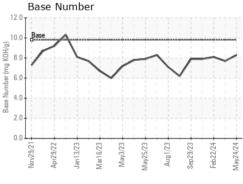
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.9	14.1
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 814 - Little Rock Hauling Sample No. : GFL0123035 Received : 03 Jun 2024 4005 Hwy 161 N. Lab Number : 06198643 Tested : 04 Jun 2024 LIttle Rock, AR Unique Number : 11060766 Diagnosed : 04 Jun 2024 - Wes Davis US 72117 Contact: Brad Koenig Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bkoenig@gflenv.com * - 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:

Mav25/23

ap 29/23

Nov29/21 Apr29/22 Jan 13/23 Aar16/23

Report Id: GFL814 [WUSCAR] 06198643 (Generated: 06/04/2024 16:00:26) Rev: 1

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