

## WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id 813045 Component Diesel Engine

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125439	GFL0116140	GFL0104580
Sample Date		Client Info		12 Jun 2024	02 May 2024	18 Dec 2023
Machine Age	hrs	Client Info		1345	1206	594
Oil Age	hrs	Client Info		139	612	594
Filter Age	hrs	Client Info				594
-		Client Info		-	-	Not Changd
-		Client Info			U	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	mag	ASTM D5185m	>120	6	27	59
Chromium		ASTM D5185m	>20	0	2	1
Nickel		ASTM D5185m	>5	<b>6</b>	▲ 20	<b>2</b> 0
Titanium		ASTM D5185m	>2	0	<1	0
Silver				<1	1	1
Aluminum					2	4
Lead				0	2	<1
Copper		ASTM D5185m	>330	3	12	59
Tin		ASTM D5185m	>15	<1	3	2
Vanadium		ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Ciliaan			. 05	л	0	60
						69 12
	ррпі					0.2
			>0.2			NEG NEG
	0/		~ 1			0.9
						10.4
						25.1
						NONE
						NONE
						NONE
						NORML
						NORML
		*Visual				NEG
	ppm		0		4	4
						180
	ppm					0
-						102
-						4
-						600
	ppm					1382
	ppm					617
	ppm					771
						1987
						22.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	6.9	7.2
	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalSilverGlycolSoot %NitrationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterGodyManganeseMagnesiumCalciumPhosphorusZincSulfurOxidation	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter ChangedSample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmWhite MetalscalarYellow MetalscalarSoot %%NitrationAbs/cmSulfationAbs/cmSulfationAbs/cmSulfationscalarDebrisscalarSand/DirtscalarAppearancescalarOdorscalarSodiumppmManganeseppmMagnesiumppmPhosphorusppmZincppmSulfurppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusChromiumppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodWaterwC MethodGlycol%SoltscalarVisualSiltscalarSulfationAbs/rmAppearancescalarSodiumppmASTM D5185mBariumppmASTM D5185mBariumppmASTM D5185mManganeseppmASTM D5185mCalciumppmASTM D5185mCalciumppmASTM D5185mCalciumppmASTM D5185mCalciumppmASTM D5185mCalciumppmASTM D5185mCalciumppmASTM D5185mCalciumppm <th>Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVallow Metalscalar"VisualSiliconppmASTM D5185mVallow Metalscalar"VisualSiliconppmASTM D5185mVaterWC Method&gt;0.2GlycolWC MethodSoot %%"ASTM D7415Siltscalar"VisualNONESand/DirtscalarSiltscalar"VisualNONEAppearancescalarVisualNORMLChorscalar"VisualNORMLSand/DirtscalarSiltscalar"VisualNORMLScalar"VisualAstm D5185m0SulfationAbs/ImmAstm D5185m0Sand/Dirtscalar"VisualSodiumppmAstm D5185m</th> <td>Sample NumberClient InfoGFL0125439Sample DateClient Info12 Jun 2024Machine AgehrsClient Info1345Oil AgehrsClient Info139Filter AgehrsClient Info139Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m&gt;200NickelppmASTM D5185m&gt;200NickelppmASTM D5185m&gt;202LeadppmASTM D5185m&gt;202LeadppmASTM D5185m&gt;202LeadppmASTM D5185m&gt;202LeadppmASTM D5185m&gt;15&lt;1</td> VanadiumppmASTM D5185m>15<1	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVallow Metalscalar"VisualSiliconppmASTM D5185mVallow Metalscalar"VisualSiliconppmASTM D5185mVaterWC Method>0.2GlycolWC MethodSoot %%"ASTM D7415Siltscalar"VisualNONESand/DirtscalarSiltscalar"VisualNONEAppearancescalarVisualNORMLChorscalar"VisualNORMLSand/DirtscalarSiltscalar"VisualNORMLScalar"VisualAstm D5185m0SulfationAbs/ImmAstm D5185m0Sand/Dirtscalar"VisualSodiumppmAstm D5185m	Sample NumberClient InfoGFL0125439Sample DateClient Info12 Jun 2024Machine AgehrsClient Info1345Oil AgehrsClient Info139Filter AgehrsClient Info139Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>200NickelppmASTM D5185m>200NickelppmASTM D5185m>202LeadppmASTM D5185m>202LeadppmASTM D5185m>202LeadppmASTM D5185m>202LeadppmASTM D5185m>15<1	Sample NumberClient InfoGFL0125439GFL0116140Sample DateClient Info12 Jun 202402 May 2024Machine AgehrsClient Info13451206Oil AgehrsClient Info139612Filter AgehrsClient InfoChangedChangedOil ChangedClient InfoChangedChangedChangedFilter ChangedClient InfoChangedChangedSample StatusASTM D5185m>120627NickelppmASTM D5185m>2002NickelppmASTM D5185m>2002SilverppmASTM D5185m>2022LeadppmASTM D5185m>2022LeadppmASTM D5185m>1000White Metalscalar"VisualNONENONENONEVanadiumppmASTM D5185m>2034Yellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185m>2034FuelWC Method>3.0<

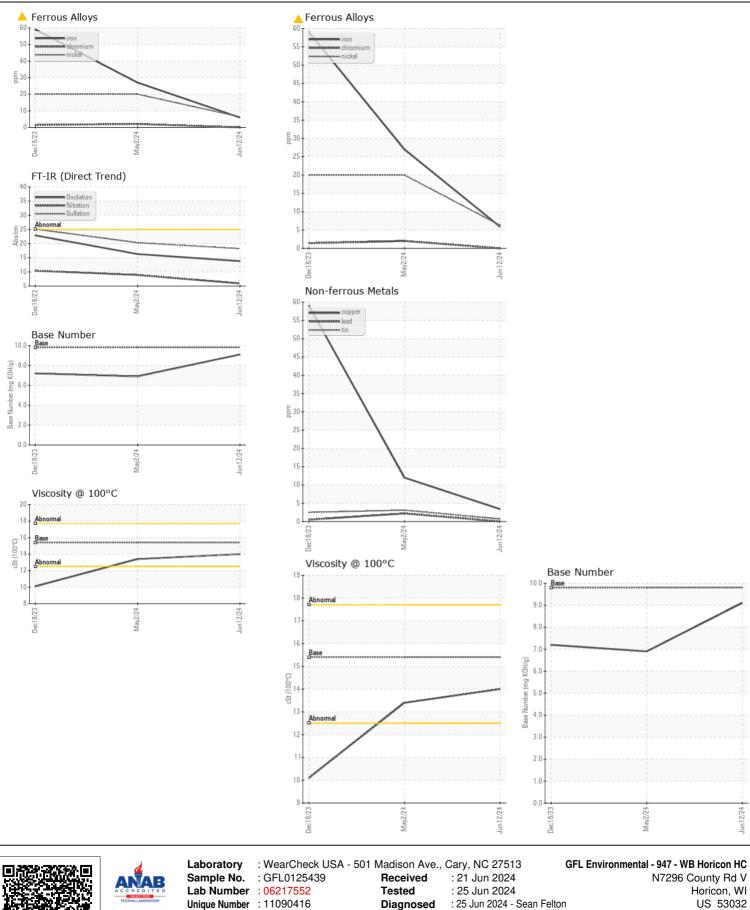
Visc @ 100°C cSt

ASTM D445 15.4

13.4

0.1

14.0



 Certificate L2367
 Test Package
 : FLEET

 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.

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Seel also GFL947 - Tim Kieffer Page 2 of 2

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