WEAR EHECK	PROBLEM SUMMARY	Sample Rating Trend	DEGRADATION
	Machine Id 412004 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (GAL)	Aug2223	
COMPONENT CO	NDITION SUMMARY		

No relevant graphs to display

RECOMMENDATION	PROBLEMATIC TEST RESULTS		
The cill is peer the end of it's useful convice life	Sample Status	ABNORMAL	

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

THOBELINATIO TEST HESSETS								
Sample Status				ABNORMAL				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	A 3.9				

Customer Id: GFL924 Sample No.: GFL0059619 Lab Number: 05924752 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id 412004 Component

Diesel Engine Fluid

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0059619		
The oil is near the end of it's useful service life,	Sample Date		Client Info		14 Aug 2023		
recommend schedule an oil change. Resample at	Machine Age	mls	Client Info		0		
the next service interval to monitor.	Oil Age	mls	Client Info		0		
Wear	Oil Changed		Client Info		N/A		
All component wear rates are normal.	Sample Status				ABNORMAL		
Contamination	CONTAMINAT		method	limit/base	current	history1	history2
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<10		
	Glycol		WC Method	20.0	NEG		
The BN level is low. The condition of the oil is	WEAR METAL	s	method	limit/base	current	historv1	historv2
acceptable for the time in service.	Iron	nom	ASTM D5185m	<120 <	101		
	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5195m	>5	8		
	Titonium	ppin	ACTM DE105m	>0	0		
	Cilver	ppm		>2	0		
	Silver	ppm	ASTM D5185M	>2	0		
	Aluminum	ppm	ASTM D5185m	>20	5		
	Lead	ppm	ASTM D5185m	>40	3		
	Copper	ppm	ASTM D5185m	>330	15		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	8		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	60	70		
	Manganese	ppm	ASTM D5185m	0	2		
	Magnesium	maa	ASTM D5185m	1010	995		
	Calcium	ppm	ASTM D5185m	1070	1291		
	Phosphorus	ppm	ASTM D5185m	1150	959		
	Zinc	nnm	ASTM D5185m	1270	1286		
	Sulfur	ppm	ASTM D5185m	2060	2650		
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	8		
	Sodium	ppm	ASTM D5185m		7		
	Potassium	ppm	ASTM D5185m	>20	15		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	1.4		
	Nitration	Abs/cm	*ASTM D7624	>20	15.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2		
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Ahs/1mm	*ASTM D7414	>25	31.2		
	Base Number (PN)	ma KOU/a	ASTM D2806	0.8	A 3.0		
	Dase Mulliber (BN)	ing NOR/g	V211A1 D5030	9.0	- 3.5		



OIL ANALYSIS REPORT

method

limit/base

current

VISUAL





	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Vieual	NONE	NONE		
	Sand/Dirt	scalar	*Vicual	NONE	NONE		
23		scalar	*Visual	NORM	NOR		
ug14//	Appearance	scalar	*\/ieuel		NORML		
A		scalar	*\/ievel	NURIVIL	NORML		
	Emuisified water	scalar	*Visual	>0.2	NEG		
	Free Water	scalar	"VISUAI		NEG		
	FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	15.4	14.4		
	GRAPHS			-			
	120 T						
	iron						
	nickel						
	80-						
	60-						
	40						
	10						
	20						
	0						
	14/23			14/23			
	Aug			Aug			
	Non-ferrous Meta	als					
	copper						
	14 - Reserves lead						
	12						
	E 8						
	4						
	2						
	0						
	4/23			4/23			
	Aug1			Aug1			
	Viscosity @ 100°	С			Baco Numbo	r	
	¹⁹			10.0		I	
	18 - Abnormal						
	17-			([®] ∦ ^{8.0}	-		
	P ¹⁶ Base			9 6.0	1 1 1		
	Ê15-			per (n			
	3 14			4.0	-		-
	13 Abnormal			⁸⁸ 2.0			
	12-						
	11			0.0			
	g14/2			g14/2	g14/2		g14/2
	Au			Au	Au		Au
Laboratory	· WearCheck LISA	501 Madi		rv NC 27512		vironmental - 00	1 - Madison HC
Sample No.	: GFL0059619	Received	d : 15	Aug 2023		300 F	aemisch Road
Lab Number	: 05924752	Diagnos	ed : 16 /	Aug 2023			Waunakee, WI
Unique Number	: 10604699	Diagnost	t ician : Jon	athan Hester			US 53597
Test Package	: FLEET					Conta	act: Ben Briggs
sample report, o	contact Customer Ser	vice at 1-8	00-237-1369). Vtation		ben.brigg	s@gflenv.com
methods that a	re outside of the ISO	17025 SCC	ipe or accreo	nation.		1:	(008)//0-9196

To discuss this sample rep * - 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)

Certificate L2367

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F:

history1

history2