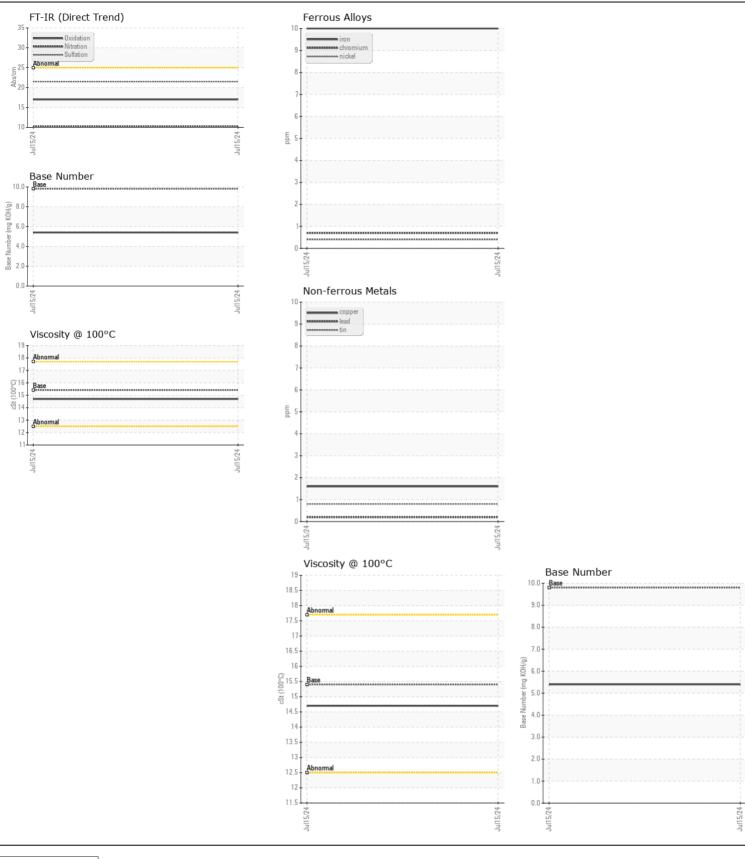


NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 434008 onen **Diesel Engine**

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

Test UOM Method utterd History 2 History 2 Resample at the next service interval to monitor. Sample Nate Client Info GUTPAT History 2 Machino Age Pro Client Info 15 Jul 202 Machino Age Pro Client Info 0 Plite Age Pro Client Info 0 No VEAR Client Info No No All component wear rates are normal. Info pm AStropping 20 10 Nokel ppm AStropping ppm AStropping 20 11 Nokel ppm AStropping ppm AStropping 20 1 Astropping ppm AStropping ppm AStropping 20 1 Note								
Beasample at the next service interval to monitor. Sample Number Sample State Client Info CB101100 ISJJ224 ··· ··· Nameline Age Namible Age Namib	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Submit basis Submit basis<		Sample Number		Client Info		GFL0124103		
Old Age Inter Manuel Old Age Inter Manuel Old Manuel Old Manuel Old Manuel Mar Clear Manuel Mar Clear Manuel Filte Changed Client Info Mar Claar Manuel Not Changed	Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jul 2024		
Filter Age hrs Client Info No Chang		Machine Age	hrs	Client Info		169		
Oil Changed Filter Ohanged Samuel Samuel Network Client Info Samuel		Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client info Not Change NORMAL Not Comman Norman All component wear rates are normal. In Status Status <t< th=""><th></th><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th></th><th></th></t<>		Filter Age	hrs	Client Info		0		
Sample Statu: NMA N N WEAR Iron pm AVID 5588 >120 10 10 10 10 All component wear rates are normal. Iron pm AVID 5588 >20 1 10 <td< th=""><th></th><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>Not Changd</th><th></th><th></th></td<>		Oil Changed		Client Info		Not Changd		
WEAR Iron ppm ASTV D585m >120 10 All component wear rates are normal. PPM ASTV D585m >20 <1 Nickel ppm ASTV D585m >5 <1 Silver ppm ASTV D585m >2 <1 All rinnim ppm ASTV D585m >2 <1 Silver ppm ASTV D585m >2 <1 Aluminum ppm ASTV D585m >20 4 Auradium ppm ASTV D585m >20 4 Vanadium ppm ASTV D585m >5 <1 Vanadium ppm ASTV D585m >20 3 Vanadium ppm ASTV D585m >20 3 Vanadium ppm ASTV D585m		Filter Changed		Client Info		Not Changd		
All component wear rates are normal. Chromium Nickel opm ASTM (bitism) 20 c1 Nickel ppm ASTM (bitism) >2 c1 Nickel ppm ASTM (bitism) >2 c1 Silver ppm ASTM (bitism) >20 c1 Silver ppm ASTM (bitism) >20 c1 Coopper ppm ASTM (bitism) >20 c1 Vanadium ppm ASTM (bitism) >30 2 Vanadium ppm ASTM (bitism) >30 2 Vanadium ppm ASTM (bitism) >52 4 Vanadium ppm ASTM (bitism) >25 4 Vanadium ppm ASTM (bitism) >25 4 <td< th=""><th></th><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th></th><th></th></td<>		Sample Status				NORMAL		
All component wear rates are normal. Chromium Nickel opm ASTM (bitism) 20 c1 Nickel ppm ASTM (bitism) >2 c1 Nickel ppm ASTM (bitism) >2 c1 Silver ppm ASTM (bitism) >20 c1 Silver ppm ASTM (bitism) >20 c1 Coopper ppm ASTM (bitism) >20 c1 Vanadium ppm ASTM (bitism) >30 2 Vanadium ppm ASTM (bitism) >30 2 Vanadium ppm ASTM (bitism) >52 4 Vanadium ppm ASTM (bitism) >25 4 Vanadium ppm ASTM (bitism) >25 4 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								
All component wear rates are normal. Nickel ppm ASTU (516m -5 -1 Titanium ppm ASTU (516m -2 -1 Silver ppm ASTU (516m -2 -1 Aluminum ppm ASTU (516m -20 4 Aluminum ppm ASTU (516m -10 Vandum ppm ASTU (516m -15 -1 Vandum ppm ASTU (516m -15 -1 Vandum ppm ASTU (516m -15 -1 Vandum ppm ASTU (516m -20 3 Vandum ppm ASTU (516m -20 3 There is no indication of any contamination in the oil. Silicon ppm ASTU (516m -20 10.2 Silicon ppm ASTU (516m -20 10.2		Iron	ppm	ASTM D5185m	>120	10		
Noke ppn ASTM 0586m 32 41 1 - - Silver ppm ASTM 0586m 22 <1 - - - Aluminum ppm ASTM 0586m 20 4 -		Chromium	ppm			<1		
Silver ppm ASTM D3185m >2 <1		Nickel	ppm	ASTM D5185m	>5	<1		
Aluminum ppm ASTM 05185m >20 4 Lead ppm ASTM 05185m >40 <1 Copper MIL 05185m >40 <1 Tin ppm ASTM 05185m >15 <1 Vanadium ppm ASTM 05185m >15 <1 Vanadium ppm ASTM 05185m >25 4 Value Molecal scalar 'Visual NONE NONE Stilicon ppm ASTM 05185m >20 3 Value VM Method Sol <1.0 Value VM CM Method Sol NONE < Value VM Method Sol NONE NONE < Stilicon ASTM 07824 >00 1.0		Titanium	ppm	ASTM D5185m	>2	<1		
Lead pp ASTM 05185m >40 <1		Silver	ppm	ASTM D5185m	>2	<1		
Copper ppm ASTM D5185m >330 2 Tin ppm ASTM D5185m 1 Vanadium ppm ASTM D5185m NONE NONE White Metal scalar Visual NONE NONE There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m -25 4 Value potassium ppm ASTM D5185m -20 3 Value VC Method None Valuer WC Method NEG Valuer WC Method NEG		Aluminum	ppm	ASTM D5185m	>20	4		
Tin ppm ASTM D5185n >15 <1		Lead	ppm	ASTM D5185m	>40	<1		
Vanadium ppm ASTM D5185m <1		Copper	ppm	ASTM D5185m	>330	2		
White Metal Yellow Metal scalar "Visual NONE NONE CONTAMINATION Silicon ppm ASTM D5185m >20 3 There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m >20 3 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soti % % YSIM D784 >4 0 Water WC Method >0.2 NEG Soti % % YSIM D784 >4 0 Soti % % YSIM D784 >30 21.5 Soti % Scalar Yisual NONE NONE Soti % Scalar Yisual NORM NORML			ppm		>15			
Yellow Metal scalar *Visual NONE CONTAMINATION Silicon ppm ASTM D5185m >20 3 There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 3 Water WC Method >3.0 <1.0 Water WC Method >3.0 <1.0 Glycol WC Method >2.0 NEG Solt % % 'ASTM D724 >20 10.2 Nitration Abc/m 'ASTM D7415 >30 21.5 Sulfation Abs/m 'ASTM D7415 >30 21.5 Sand/Dirt scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NORM NORM Codr			ppm			<1		
CONTAMINATION Silicon ppm ASTM 05/85m >25 4 There is no indication of any contamination in the oil. Potassium ppm ASTM 05/85m >20 3 Fuel WC Method >3.0 <1.0 Water WC Method >3.0 <1.0 Glycol WC Method >3.0 <1.0 Water WC Method >0.2 NEG Solf % % 'ASTM 0784 >4 0 Sulfation Abs/tm< 'ASTM 0784 >20 10.2 Sulfation Abs/tm< 'ASTM 0784 >30 21.5 Sulfation Abs/tm< 'ASTM 0784 >00 NONE		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5165m >20 3 Fuel WC Method >3.0 <1.0 Fuel WC Method >3.0 <1.0 Glycol WC Method >0.2 NEG Solt % %STM D7841 >4 0 Solt % %STM D7841 >20 10.2 Solt scalar Visual NONE 21.5 Silt scalar Visual NONE NONE Debris scalar Visual NONE NONE Sand/Dirt scalar Visual NORM NORM Odor scalar Visual NORM NORM Boron ppm ASTM 05165m 0 13<		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5165m >20 3 Fuel WC Method >3.0 <1.0 Fuel WC Method >3.0 <1.0 Glycol WC Method >0.2 NEG Solt % %STM D7841 >4 0 Solt % %STM D7841 >20 10.2 Solt scalar Visual NONE 21.5 Silt scalar Visual NONE NONE Debris scalar Visual NONE NONE Sand/Dirt scalar Visual NORM NORM Odor scalar Visual NORM NORM Boron ppm ASTM 05165m 0 13<					05			
Fuel WC Method >3.0 <1.0 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % 'NSTM D7624 >20 10.2 Nitration Abs/cm 'ASTM D7624 >20 10.2 Sulfation Abs/fm 'Assall NONE NONE Sulfation Scalar 'Visual NORM NORM Appearance scalar 'Visual NORM NORM Mopearance scalar 'Visual NORM NORM Boron ppm ASTM D	CONTAMINATION							
Fuel Workerhold Sol Fuel Workerhold Sol Fuel	There is no indication of any contamination in the oil.		ppm					
Glycol WC Method NEG Soot % % 'ASTM D784 >4 0 Nitration Abs/Im 'ASTM D784 >4 0 Nitration Abs/Im 'ASTM D784 >20 10.2 Sulfation Abs/Im 'ASTM D7815 >30 21.5 Sulfation Abs/Im 'Visual NONE NONE Sulfation scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NONE NONE Appeance scalar 'Visual NORM Odor scalar 'Visual NORM Broin ppm ASTM D5185m 0 0								
Soot % % *ASTM D7844 >4 0 Nitration Abs/cm *ASTM D762 >20 10.2 Sulfation Abs/tm *ASTM D762 >20 10.2 Sulfation Abs/tm *ASTM D762 >30 21.5 Sulfation Abs/tm *Visual NONE NONE Sift scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML The BN result indicates that there is suitable alkalinity remaining in the oil is acceptable for the time in service. Sodium pm ASTM D5185m 0 13 Boron ppm ASTM D5185m					>0.2			
Nitration Abs/cm *ASTM D7624 >20 10.2 Sulfation Abs/tmm *ASTM D7624 >30 21.5 Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Samd/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Bron ppm ASTM D5185m 0 13 Barium ppm ASTM D5185m 0 13 Malganesium		-	01		4			
Sulfation Abs/Imm 'ASTM D7415 >30 21.5 Silt scalar 'Visual NONE NONE Debris scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NONE NONE Appearance scalar 'Visual NORM NORM Odor scalar 'Visual NORM NORM Dobris scalar 'Visual NORM NORM Odor scalar 'Visual NORM NORM Broin scalar 'Visual NOR 13 Maganese ppm ASTM D5185m 0 -13 Maganese ppm ASTM D5185m 1010 576 Maganesium								
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONEInoneInoneInoneInoneSand/Dirtscalar*VisualNONENONENONEInoneInoneInoneInoneAppearancescalar*VisualNORENORENOREInone <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m0NEGBoronppmASTM D5185m0133BariumppmASTM D5185m00MolybdenumppmASTM D5185m054MagneseppmASTM D5185m1010576CalciumppmASTM D5185m10701679ZincppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGFLUID CONDITIONSodiumppmASTM D5185m013BoronppmASTM D5185m013BariumppmASTM D5185m00MolybdenumppmASTM D5185m0MagneseppmASTM D5185m0CalciumppmASTM D5185m1010576CalciumppmASTM D5185m11508338ZincppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m12701040SulfurppmASTM D5185m127011040SulfurppmASTM D5185m127011040SulfurppmASTM D5185m127011040SulfurppmASTM D5185m127011040 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
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Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m3BoronppmASTM D5185m013BariumppmASTM D5185m00MolybdenumppmASTM D5185m054MagnesiumppmASTM D5185m0<1MagnesiumppmASTM D5185m1010576MagnesiumppmASTM D5185m1010576CalciumppmASTM D5185m1010576PhosphorusppmASTM D5185m1150838SulfurppmASTM D5185m12701040OxidationAbs'.1mm*ASTM D5185m20602601Base Number (BN)mg K0HigASTM D28969.85.4								
Emulsified Waterscalar*Visual>0.2NEGFLUID CONDITIONSodiumppmASTM D5185m013BoronppmASTM D5185m013BariumppmASTM D5185m00MolybdenumppmASTM D5185m054MaganeseppmASTM D5185m0<1MagnesiumppmASTM D5185m0<1MagnesiumppmASTM D5185m1010576CalciumppmASTM D5185m10701679PhosphorusppmASTM D5185m1150838SulfurppmASTM D5185m20602601OxidationAbs/.1mm*ASTM D714>2517.0Base Number (BN)mg KOHgASTM D28699.85.4						-		
Sodium ppm ASTM D5185m 3 Boron ppm ASTM D5185m 0 13 Barium ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 010 576 Magnesium ppm ASTM D5185m 1010 576 Phosphorus ppm ASTM D5185m 1010 576 Zinc ppm ASTM D5185m 1150 838 Sulfur ppm ASTM D5185m 1270 1040 Oxidation Abs/.1mm< 'ASTM D7141 >25 17.0 Base Number (BN) mg K0Hig ASTM D2896 9.8 5.4								
BoronppmASTM D5185m013BariumppmASTM D5185m000MolybdenumppmASTM D5185m6054ManganeseppmASTM D5185m0<11MagnesiumppmASTM D5185m1010576MagnesiumppmASTM D5185m10701679CalciumppmASTM D5185m10701679PhosphorusppmASTM D5185m11508388ZincppmASTM D5185m12701040SulfurppmASTM D5185m20602601OxidationAbs:1mm*ASTM D7414>2517.0Base Number (BN)mg KOHgASTM D28969.85.4		Emuisilieu waler	scalar	visual	>0.2	NEG		
BoronppmASTM D5185m013BariumppmASTM D5185m000MolybdenumppmASTM D5185m6054ManganeseppmASTM D5185m0<11MagnesiumppmASTM D5185m1010576MagnesiumppmASTM D5185m10701679CalciumppmASTM D5185m10701679PhosphorusppmASTM D5185m11508388ZincppmASTM D5185m12701040SulfurppmASTM D5185m20602601OxidationAbs:1mm*ASTM D7414>2517.0Base Number (BN)mg KOHgASTM D28969.85.4	FLUID CONDITION	Sodium	maa	ASTM D5185m		3		
BariumppmASTM D5185m000MolybdenumppmASTM D5185m6054ManganeseppmASTM D5185m0<1MagnesiumppmASTM D5185m1010576CalciumppmASTM D5185m10701679PhosphorusppmASTM D5185m1150838ZincppmASTM D5185m12701040SulfurppmASTM D5185m20602601OxidationAbs.1mm*ASTM D7414>2517.0Base Number (BN)mg KOHgASTM D28969.85.4					0			
Noll. The condition of the oil is acceptable for the time in service. Molybdenum ppm ASTM D5185m 60 54 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 576 Calcium ppm ASTM D5185m 1070 1679 Phosphorus ppm ASTM D5185m 1150 838 Zinc ppm ASTM D5185m 1270 1040 Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOHg ASTM D2896 9.8 5.4								
Manganese ppm ASTM D5185m 0 <1								
Magnesium ppm ASTM D5185m 1010 576 Calcium ppm ASTM D5185m 1070 1679 Phosphorus ppm ASTM D5185m 1150 838 Zinc ppm ASTM D5185m 1270 1040 Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs:/1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOH'g ASTM D2896 9.8 5.4		-						
Calcium ppm ASTM D5185m 1070 1679 Phosphorus ppm ASTM D5185m 1150 838 Zinc ppm ASTM D5185m 1270 10400 Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs:.1mm *ASTM D714 >25 17.0 Base Number (BN) mg KOHz ASTM D2896 9.8 5.4		-						
Phosphorus ppm ASTM D5185m 1150 838 Zinc ppm ASTM D5185m 1270 1040 Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOH/g ASTM D2896 9.8 5.4		-						
Zinc ppm ASTM D5185m 1270 1040 Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs.1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOH/g ASTM D2896 9.8 5.4								
Sulfur ppm ASTM D5185m 2060 2601 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOH/g ASTM D2896 9.8 5.4								
Oxidation Abs/.1mm *ASTM D7414 >25 17.0 Base Number (BN) mg KOH/g ASTM D2896 9.8 5.4								
Base Number (BN) mg KOH/g ASTM D2896 9.8 5.4								
			mg KOH/g			5.4		
						14.7		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0124103 Received 7801 East Truman Road : 18 Jul 2024 Lab Number : 06239846 Tested Kansas City, MO : 18 Jul 2024 Unique Number : 11128680 Diagnosed : 19 Jul 2024 - Sean Felton US 64126 Test Package : FLEET Contact: Loyce Stewart Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. loyce.stewart@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836 Page 2 of 2