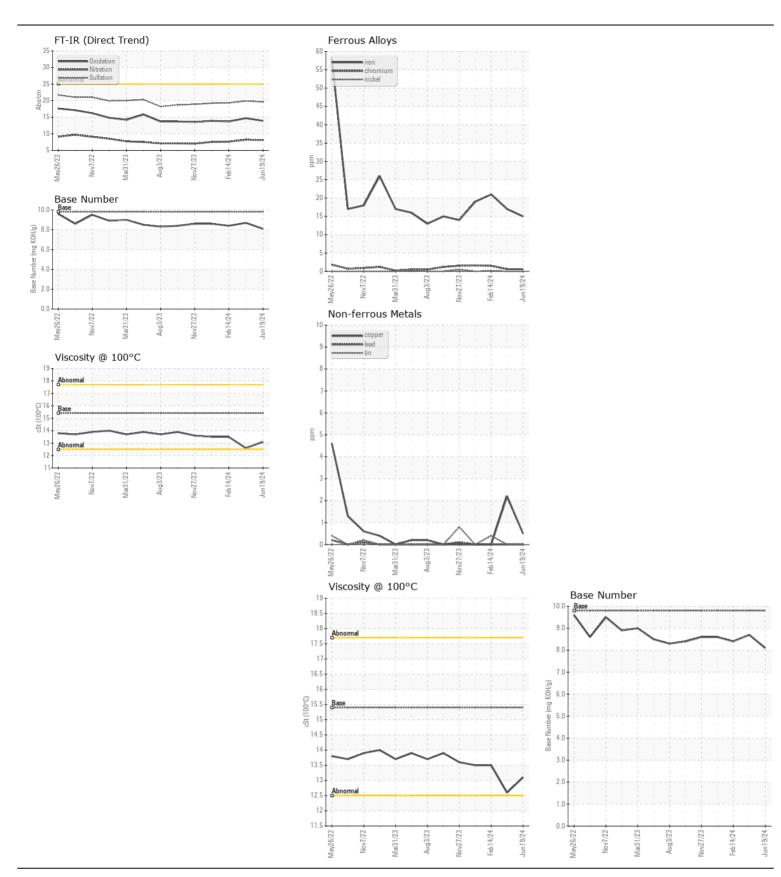
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

(BD08631)

912046 Component

Diesel Engine

Sample Date Client Info 19 Jun 2024 14 Feb 2025 16 Feb 20 16 Feb 2	PETRO CANADA DURON SHP 15W40 (46 QTS)						
Sample Number Client Info GFL078889 Childred Client Info Childred Childred	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Glient Info 19 Jun 2024 14 Feo 2025 Machine Age his Client Info 587 580 593		Sample Number		Client Info				GFL0110273
Machine Age hrs Client Info 7716 7129 6549 Filter Age hrs Client Info 587 580 593 Filter Age hrs Client Info 587 580 593 Filter Age hrs Client Info 587 580 593 Filter Changed Client Info Changed Changed	Resample at the next service interval to monitor.					19 Jun 2024		14 Feb 2024
Filter Age		Machine Age	hrs	Client Info		7716		6549
Oil Changed Chient Info Changed Change		Oil Age	hrs	Client Info		587	580	593
Filter Changed Sample Status		Filter Age	hrs	Client Info		587	580	593
VEAR		Oil Changed		Client Info		Changed	Changed	Changed
VEAR		Filter Changed		Client Info		Changed	Changed	Changed
Chromium ppm ASTM DSIS >20 <1 <1 2 <1 2 <1 2 <1 2 <1 2 <1 <1		Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM DSIS >20 <1 <1 2 <1 2 <1 2 <1 2 <1 2 <1 <1	WEAR	Iron	ppm	ASTM D5185m	>90	15	17	21
Nickel ppm ASTM D5185m >2 0 0 < 1	All component wear rates are normal.	Chromium		ASTM D5185m	>20		<1	2
Titanium ppm ASTM D5155m >2 0 0 0 0 0 0 0 0 0		Nickel				0	0	<1
Silver ppm ASTM D5185m >2		Titanium	• • • • • • • • • • • • • • • • • • • •			0	0	0
Aluminum ppm ASTM D5865m >20 4 4 11		Silver		ASTM D5185m	>2	0	0	0
Lead		Aluminum				4	4	11
Copper							0	
Tin								
Vanadium ppm ASTM 05185m 0 0 0 0 NONE N						0		<1
White Metal Scalar Visual NONE NON		Vanadium				0	0	0
Yellow Metal Scalar *Visual NONE N					NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m 20 12 8 27		Yellow Metal		*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM 05185m 20 12 8 27	CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	3	3	2
Fuel WC Method Sa.0 Cal.0 Ca	OONTAMINATION		• • • • • • • • • • • • • • • • • • • •					
Water WC Method >0.2. NEG	There is no indication of any contamination in the oil.		ppiii					
Glycol								
Soot %					70.L			
Nitration			0/2		\6			
Sulfation Abs/.fmm *ASTM D7415 >30 19.6 19.9 19.3								
Silt scalar *Visual NONE NORML NORM								
Debris Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE								
Sand/Dirt Scalar *Visual NONE NONE NONE NONE Appearance Scalar *Visual NORML N								
Appearance Scalar *Visual NORML NORM								
Oddr Scalar *Visual NORML NORM								
Emulsified Water scalar *Visual >0.2 NEG NEG NEG								
Sodium ppm ASTM D5185m 0 0 0 0 0 0 0 0 0								
Boron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0	THE CONDITION							
The BN result indicates that there is suitable alkalinity remaining in the bil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 877 888 813 Calcium ppm ASTM D5185m 1070 1016 1025 934 Phosphorus ppm ASTM D5185m 1150 971 972 915 Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4	-LUID CONDITION						-	
Molybdenum ppm ASTM D5185m 0 0 0 0 0 0 0 0 0	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 877 888 813 Calcium ppm ASTM D5185m 1070 1016 1025 934 Phosphorus ppm ASTM D5185m 1150 971 972 915 Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4	oil. The condition of the oil is suitable for further service.		• •					
Magnesium ppm ASTM D5185m 1010 877 888 813 Calcium ppm ASTM D5185m 1070 1016 1025 934 Phosphorus ppm ASTM D5185m 1150 971 972 915 Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4		•						
Calcium ppm ASTM D5185m 1070 1016 1025 934 Phosphorus ppm ASTM D5185m 1150 971 972 915 Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4		-						
Phosphorus ppm ASTM D5185m 1150 971 972 915 Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4		•						
Zinc ppm ASTM D5185m 1270 1187 1169 1118 Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4								
Sulfur ppm ASTM D5185m 2060 3360 3183 2727 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4		•						
Oxidation Abs/.1mm *ASTM D7414 >25 13.9 14.7 13.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4								
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.1 8.7 8.4								
Visc @ 100°C cSt ASTM D445 15.4 13.1 12.6 13.5								
		Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.6	13.5







Certificate L2367

Laboratory

Sample No.

Lab Number : 06220537 Unique Number : 11098734 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 : GFL0120890 **Tested**

: 26 Jun 2024 Diagnosed : 26 Jun 2024 - Wes Davis

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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)

T:

F: