

## **OIL ANALYSIS REPORT**

Sample Rating Trend



FUEL

Machine Id 412044 Component **Diesel Engine** 

Fluid PFTRO CANADA DURON SHP 15W40 (-CVI V

			ug2022 Dec2	022 Jan 2023 Apr 2023	Jun2023 Jul2023 Sep2023 Nov	2023 Jan2024	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103519	GFL0103497	GFL009477
e recommend that you drain the oil from the	Sample Date		Client Info		18 Jan 2024	19 Dec 2023	30 Nov 202
omponent if this has not already been done. We	Machine Age	hrs	Client Info		4178	4039	3904
commend an early resample to monitor this	Oil Age	hrs	Client Info		851	712	577
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
ear	Sample Status				ABNORMAL	NORMAL	NORMAL
Contomination	CONTAMINAT	ION	method	limit/base	current	history1	history2
ere is a moderate amount of fuel present in the	Water		WC Method	>0.2	NEG	NEG	NEG
Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition		9	method	limit/base	current	history1	history'
e BN result indicates that there is suitable		.0		100	10		a a
and is lowering the viscosity. The oil is no longer	Iron	ppm	ASTM D5185m	>120	10	8	11
viceable due to the presence of contaminants.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
······································	Nickel	ppm	ASTM D5185m	>5	2	0	3
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	2	2
	Lead	ppm	ASTM D5185m	>40	2	0	<1
	Copper	ppm	ASTM D5185m	>330	2	<1	3
	Tin	ppm	ASTM D5185m	>15	1	0	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	10	17	11
	Barium	ppm	ASTM D5185m	0	1	0	0
	Molybdenum	ppm	ASTM D5185m	60	90	93	102
	Manganese	ppm	ASTM D5185m	0	1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	901	900	943
	Calcium	ppm	ASTM D5185m	1070	1016	1057	1077
	Phosphorus	ppm	ASTM D5185m	1150	907	848	983
	Zinc	ppm	ASTM D5185m	1270	1171	1182	1238
	Sulfur	ppm	ASTM D5185m	2060	2891	2840	2425
	CONTAMINAN	ITS	method	limit/base	current	history1	history
	Silicon	ppm	ASTM D5185m	>25	5	3	8
	Sodium	ppm	ASTM D5185m		6	2	5
	Potassium	ppm	ASTM D5185m	>20	11	11	13
	Fuel	%	ASTM D3524	>3.0	<b>A</b> 3.3	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history
	Soot %	%	*ASTM D7844	>4	0.4	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.5	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	18.2	20.7
			method	limit/base	current	history1	history
		Aboldene		. 05	16.7	14.0	17.0
	Oxidation	ADS/.IMM	ASTM D0000	>20	10.7	14.3	17.0
	Base Number (BN)	ing KOH/g	ASTIVI D2896	9.8	0.3	0.2	0.3



## **OIL ANALYSIS REPORT**

VISUAL





C	Jul8/23	_		-928iner	White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML >0.2	NONE NONE NONE NONE NONE NORML NORML NEG NEG	NONE NONE NONE NONE NONE NORML NORML NEG NEG	NONE NONE NONE NONE NONE NORML NORML NEG NEG		
					FLUID PROPE	ERTIES	method	limit/base	current	history1	history2		
		_	-		Visc @ 100°C	cSt	ASTM D445	15.4	12.3	14.0	13.3		
April 1/23	Jun22/23	Jul21/23	Sep26/23 -	Nov30/23	Ferrous Alloys	Jun22/23	Juli 1/23 Sep 26/23 Nov/30/23	Jan18/24					
Apr11/23 +	Jun22/23 -	Jul21/23	Sep26/23 -	Nov20/23	Non-ferrous Meta	IIs	Jul21/23 Sep26/23 Nov30/23	Jan 18/24					
					Viscosity @ 100°C	C	Jul2/1/23 Sep26/23 Nov30/23	10 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Base Number	Apri 1/23 Jun 2223 Jul 2/23	Sep26/23 Sep26/23 Nov:30/23 Jan 18/24		
Laboratory Sample No. Lab Number Unique Number Test Package To discuss this sample report, of * - Denotes test methods that a. Statements of conformity to speci					: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103519 <b>Recieved</b> : 23 Jan 2024 : 06068149 <b>Diagnosed</b> : 25 Jan 2024 : 10844826 <b>Diagnostician</b> : Wes Davis : FLEET (Additional Tests: FuelDilution, PercentFuel) contact Customer Service at 1-800-237-1369. are outside of the ISO 17025 scope of accreditation. cifications are based on the simple acceptance decision rule (JC				3 GFL enviro j (JCGM 106:2012)	GFL environmental - 867 - Trafford (Blount Hauling) 1130 County Line Rd Trafford, AL US 35172 Contact: Jonathan Williams jonathan.williams@gflenv.com T: CGM 106:2012) F:			

method limit/base current history1 history2