WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

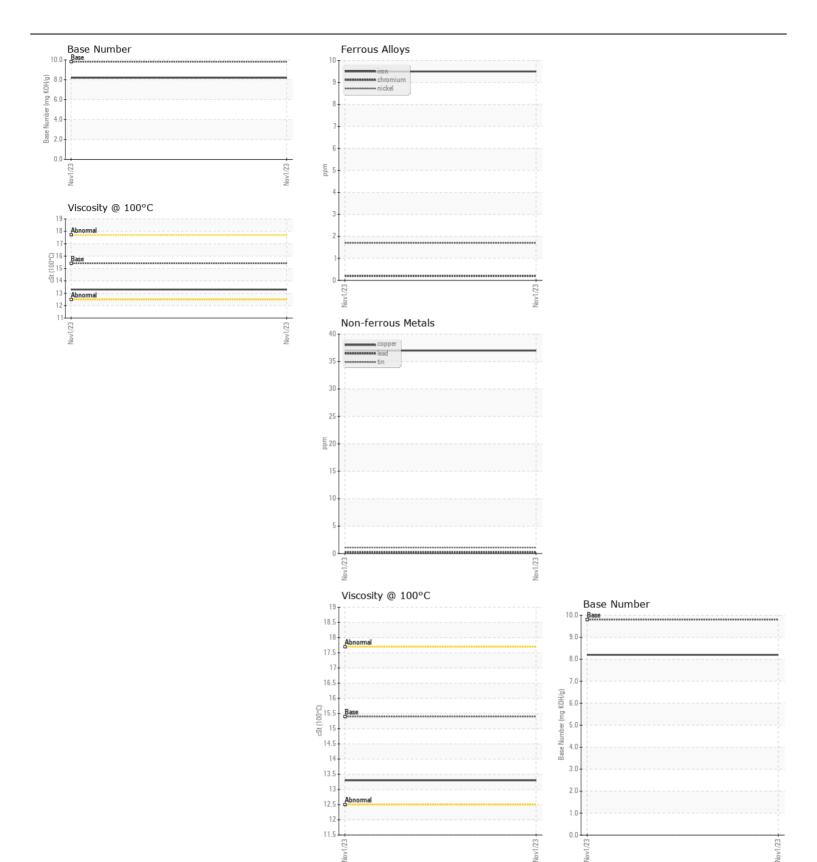


Area (BD49682)
Machine Id 913185
Component

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

DECOMMENDATION	T 1	11014	NA-Al-	1 to - to / A I	(a	118-4- 4	11:-4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0104538		
·	Sample Date	mala	Client Info		01 Nov 2023		
	Machine Age	mls	Client Info		0		
	Oil Age Filter Age	mls	Client Info		600 600		
	Oil Changed	mls	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client into		NORMAL		
<u> </u>							
WEAR	Iron	ppm	ASTM D5185m	>120	10		
All .	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	1		
	Aluminum	ppm	ASTM D5185m	>20	1		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	37		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 25	11		
CONTAININATION	Potassium	ppm	ASTM D5185m		1		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>3.0	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	70.2	NEG		
	Soot %	%	*ASTM D7844	>4	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	6.9		
	Sulfation	Abs/.1mm	*ASTM D7415		19.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron		ASTM D5185m	0	12		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		65		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	1010	933		
	Calcium	ppm	ASTM D5185m	1070	1043		
	Phosphorus	ppm	ASTM D5185m	1150	1072		
	Zinc	ppm	ASTM D5185m	1270	1218		
	Sulfur	ppm	ASTM D5185m	2060	2911		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2		
	Visc @ 100°C	cSt	ASTM D445	15.4	13.3		







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10832145

: GFL0104538 : 06060763 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 : 17 Jan 2024 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 461 - Smith Hauling 3239 W. M 28

Brimley, MI US 49715 Contact: Jim Smith jim.smith@gflenv.com T: (906)635-3380

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)

Report Id: GFL461 [WUSCAR] 06060763 (Generated: 01/17/2024 09:39:00) Rev: 1