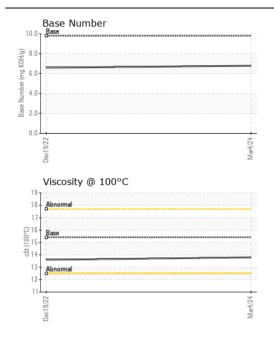
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL** NORMAL

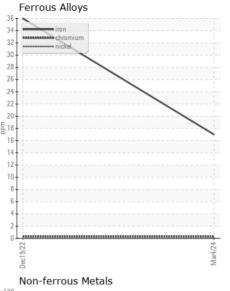
Machine Id **812045**

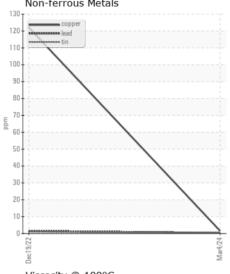
Component Diesel Engine

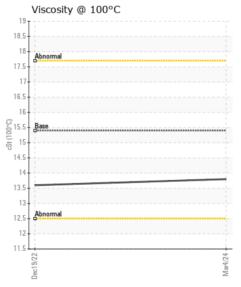
PETRO CANADA DURON SHP 15W40 (--- GAL)

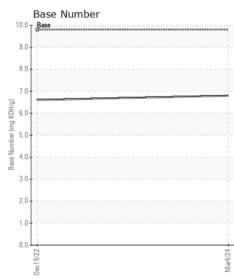
PETRO CANADA DURON SHP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOGRAME TO THE TEOGRAM TO THE TEOGR	Sample Number		Client Info		GFL0069919	GFL0059581	
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Mar 2024	19 Dec 2022	
	Machine Age	hrs	Client Info		4844	24877	
	Oil Age	hrs	Client Info		600	1272	
	Filter Age	hrs	Client Info		0	1272	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAD			40TM DE405	400			
WEAR	Iron	ppm	ASTM D5185m		17	36	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		4	0	
	Lead	ppm	ASTM D5185m		<1	2	
	Copper	ppm	ASTM D5185m		2	122	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	6	
	Potassium	ppm	ASTM D5185m	>20	5	<1	
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.9	
	Nitration	Abs/cm	*ASTM D7624		9.5	10.7	
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	24.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	
	Boron	ppm	ASTM D5185m	0	0	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	60	68	57	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	1010	1069	862	
	Calcium	ppm	ASTM D5185m	1070	1204	1011	
	Phosphorus	ppm	ASTM D5185m	1150	1201	960	
	Zinc	ppm	ASTM D5185m	1270	1409	1166	
	Sulfur	ppm	ASTM D5185m	2060	3106	2516	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	24.7	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	6.6	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.6	
	-						













Laboratory Sample No.

: GFL0069919 Lab Number : 06125494 Unique Number : 10939645 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested**

: 22 Mar 2024 : 22 Mar 2024 - Wes Davis Diagnosed

GFL Environmental - 902 - Chilton HC 428 High St

Chilton, WI US 53014 Contact: Keith Mueller keith.mueller@gflenv.com

T: (920)374-1404

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)