WEAR CONTAMINATION FLUID CONDITION

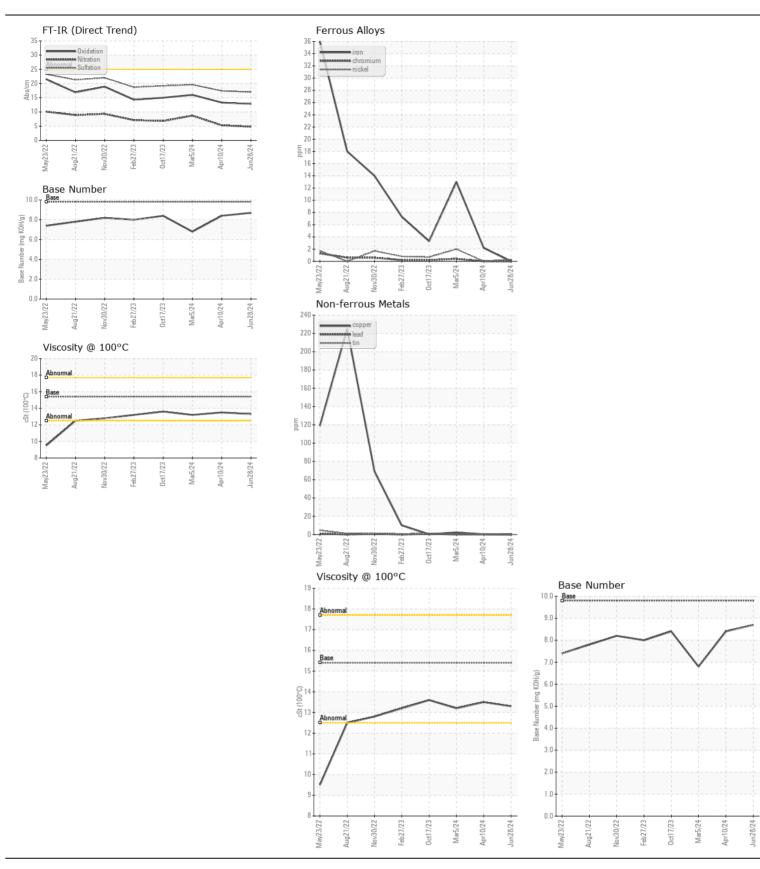
NORMAL NORMAL

Machine Id **412018**

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0122689	GFL0110201	GFL011018
	Sample Date		Client Info		28 Jun 2024	10 Apr 2024	05 Mar 202
	Machine Age	hrs	Client Info		5054	4989	4863
	Oil Age	hrs	Client Info		65	600	600
	Filter Age	hrs	Client Info		65	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	0	2	13
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	2
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	<1	3
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	-	0	<1	2
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05		2	
CONTAININATION	Potassium	ppm	ASTM D5185m	-	3 2	16	4
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.1	0.1	0.3
	Nitration	Abs/cm	*ASTM D7644		4.8	5.3	8.7
	Sulfation	Abs/.1mm	*ASTM D7024		17.0	17.4	19.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
THE CONDITION	0 "		40714 05405				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2	4	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	3	<1
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		50	54	63
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		885	861	941
	Calcium	ppm	ASTM D5185m		1054	1071	1070
	Phosphorus	ppm	ASTM D5185m		1019	991	958
	Zinc	ppm	ASTM D5185m		1207	1168	1205
	Sulfur	ppm	ASTM D5185m		3566	3486	2819
	Oxidation	Abs/.1mm	*ASTM D7414		12.8	13.3	16.0
	Rase Number (RN)	ma KOH/a	ASTM D2896	9.8	8.7	8.4	6.8
	Visc @ 100°C	cSt	ASTM D445		13.3	13.5	13.2







Certificate L2367

Report Id: GFL660 [WUSCAR] 06227240 (Generated: 07/09/2024 14:27:14) Rev: 1

Laboratory Sample No.

: GFL0122689 Lab Number : 06227240 Unique Number : 11110733 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024

Tested : 05 Jul 2024 Diagnosed : 05 Jul 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling

2410 Mayflower Drive Lynchburg, VA US 24501

Contact: Delbert Beasley dbeasley@countyrecycling.net T: (434)665-5998

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)

Submitted By: RYAN JONES

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