WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



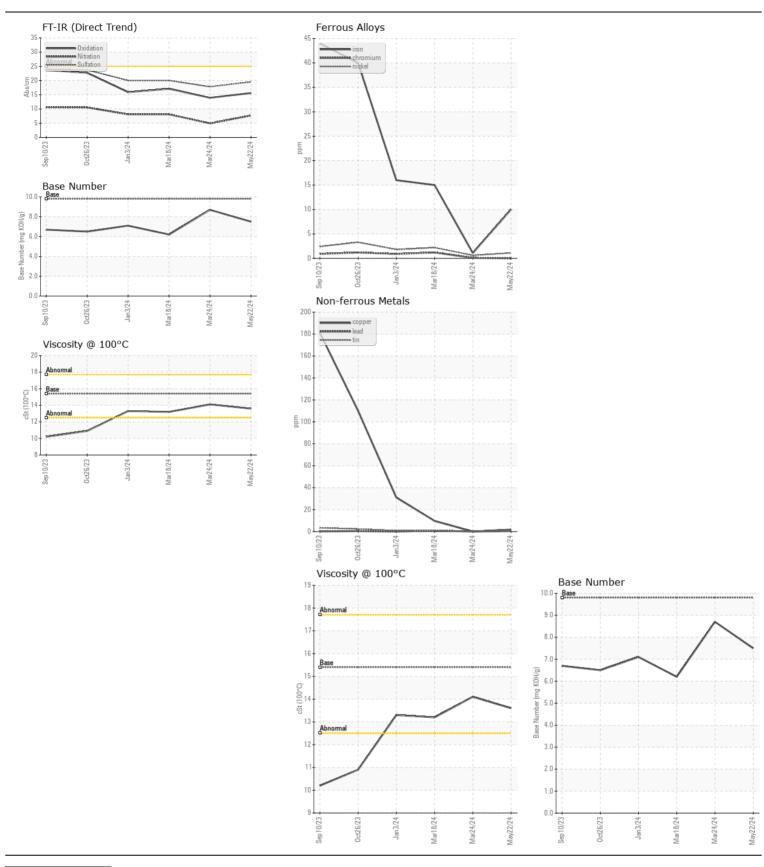
(BD49686) {UNASSIGNED}

914022

1 Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

PETRO CANADA DURON SHP	15W40 (9 G	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0115203	GFL0115165	GFL0115178
	Sample Date		Client Info		22 May 2024	24 Mar 2024	18 Mar 2024
	Machine Age	hrs	Client Info		2980	2382	2332
	Oil Age	hrs	Client Info		598	649	599
	Filter Age	hrs	Client Info		598	649	599
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	10	1	15
	Chromium	ppm	ASTM D5185m	>20	0	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	<1	2
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		- <1	0	<1
	Copper	ppm	ASTM D5185m		2	0	10
	Tin	ppm	ASTM D5185m		- <1	0	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	2	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	2	2
There is no indication of any contamination in the oil.	Fuel	ррт	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 4	0.4	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624		7.7	4.9	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	17.8	20.0
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	<1	3
I LOID CONDITION	Boron	ppm	ASTM D5185m	0	1	2	3
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	<1
	Molybdenum	ppm	ASTM D5185m		58	52	56
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		942	912	905
	Calcium	ppm	ASTM D5185m		1036	972	991
	Phosphorus	ppm	ASTM D5185m		1022	1003	1052
	Zinc	ppm	ASTM D5185m		1245	1201	1175
	Sulfur	ppm	ASTM D5185m		3256	3465	2966
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	13.9	17.1
	Base Number (BN)		ASTM D2896		7.5	8.7	6.2
	Visc @ 100°C	cSt	ASTM D445		13.6	14.1	13.2
	-						







Certificate L2367

Laboratory

Sample No. Lab Number : 06193399 Unique Number : 11050151

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0115203 **Tested**

: 28 May 2024 : 30 May 2024 Diagnosed : 30 May 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills

7811 Chubb Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

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)

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F: