WEAR CONTAMINATION FLUID CONDITION

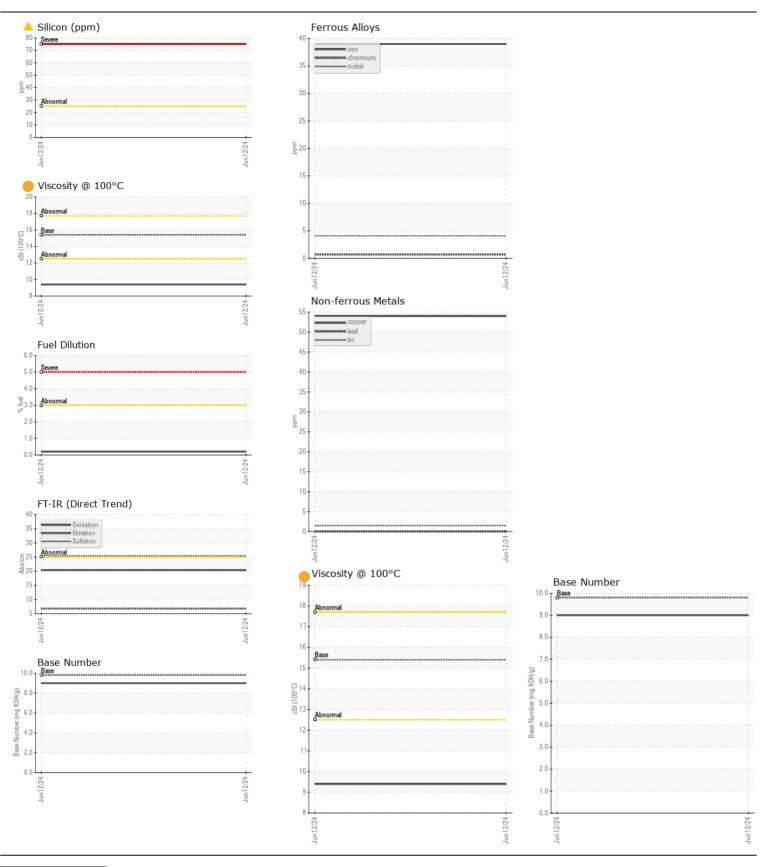
NORMAL
ABNORMAL
ATTENTION



Machine Id
714017
Component
Diesel Engine
Fluid

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

PETRO CANADA DURON SHP 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINETON	Sample Number	COM	Client Info	Lillio / toll	GFL0116048		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jun 2024		
	Machine Age	hrs	Client Info		161		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Client iiiio		ABNORMAL		
					ADNONWAL		
WEAR	Iron	ppm	ASTM D5185m	>120	39		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m		4		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		1		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		54		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	ppm	ASTM D5185m	>25	<b>4</b> 75		
	Potassium	ppm	ASTM D5185m	>20	20		
	Fuel	%	ASTM D3524	>3.0	0.2		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>4	0.1		
	Nitration	Abs/cm		>20	6.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4		
	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		6		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		359		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		116		
	Manganese	ppm	ASTM D5185m	0	4		
	Magnesium	ppm	ASTM D5185m		655		
	Calcium	ppm	ASTM D5185m		1503		
	Phosphorus	ppm	ASTM D5185m		747		
	Zinc	ppm	ASTM D5185m		845		
	Sulfur	ppm	ASTM D5185m		2916		
	Oxidation	Abs/.1mm	*ASTM D7414		20.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.0		
	Visc @ 100°C	cSt	ASTM D445	15.4	9.4		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116048 Lab Number : 06211349

Unique Number : 11084213

Received : 17 Jun 2024 **Tested** : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

1241 KING SETTLEMENT RD

GFL Environmental - 641 - Alpena

\* - 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) ALPENA, MI

US 49707