WEAR CONTAMINATION FLUID CONDITION

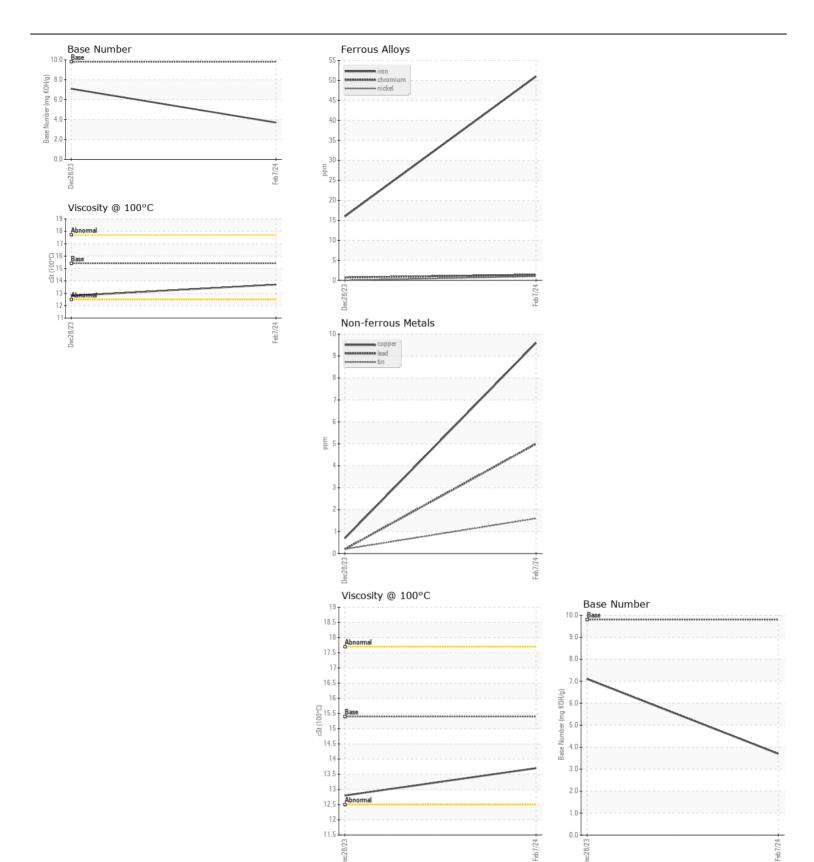
NORMAL NORMAL



Machine Id 910065 Component Diesel Engine Fluid

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0110095	GFL0104394	
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	28 Dec 2023	
	Machine Age	hrs	Client Info		6319	6318	
	Oil Age	hrs	Client Info		600	6318	
	Filter Age	hrs	Client Info		600	6318	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAD	lvan		ASTM D5185m	. 100	F4	16	
WEAR	Iron	ppm			51	16	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	
	Nickel	ppm	ASTM D5185m		1	0	
	Titanium Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		<1 3	0 2	
		ppm					
	Lead	ppm	ASTM D5185m ASTM D5185m		5 10	<1 <1	
	Copper Tin	ppm	ASTM D5185m		2	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	ppm	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Tellow Metal	scalar	VISUAI	NONE	INOINE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	3	
	Potassium	ppm	ASTM D5185m		<1	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	1	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	12.3	11.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	22.0	
	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	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		7	5	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	Λ	2	2	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		60	53	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		914	860	
	Calcium	ppm	ASTM D5185m		1030	946	
	Phosphorus	ppm	ASTM D5185m		988	963	
	Zinc	ppm	ASTM D5185m		1233	1167	
	Sulfur	ppm	ASTM D5185m		2110	2678	
	Oxidation	Abs/.1mm	*ASTM D7414		24.8	21.0	
	Base Number (BN)				3.7	7.1	
	Visc @ 100°C	cSt	ASTM D445		13.7	12.8	







Laboratory Sample No.

Lab Number : 06085843

Unique Number : 10873288 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110095 Received : 12 Feb 2024

**Tested** : 13 Feb 2024 Diagnosed : 13 Feb 2024 - Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI

US 48184 Contact: Belal Dgheish bdgheish@gflenv.com

T: (734)714-2340

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.