WEAR CONTAMINATION FLUID CONDITION

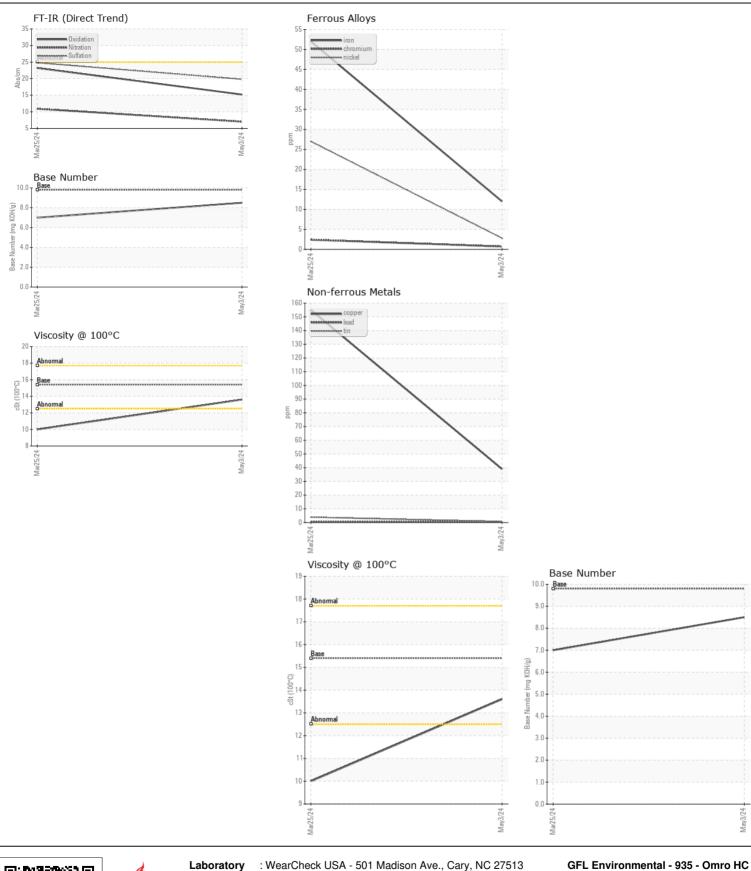
NORMAL NORMAL



814008
Component
Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Decemble at the payt considerint on all to manifest	Sample Number		Client Info		GFL0116195	GFL0092544	
Resample at the next service interval to monitor.	Sample Date		Client Info		03 May 2024	25 Mar 2024	
	Machine Age	hrs	Client Info		828	596	
	Oil Age	hrs	Client Info		232	596	
	Filter Age	hrs	Client Info		232	596	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>120	12	52	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	2	
ivietal levels are typical for a flew component breaking in.	Nickel	ppm	ASTM D5185m		3	<u></u> 27	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	2	<1	
	Aluminum	ppm	ASTM D5185m	>20	5	7	
	Lead	ppm	ASTM D5185m	>40	<1	<1	
	Copper	ppm	ASTM D5185m	>330	39	155	
	Tin	ppm	ASTM D5185m	>15	<1	4	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	69	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		12	8	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	0.3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.4	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	10.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	24.8	
	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	scalar	*Visual	>0.2	NEG	NEG	
ELUID CONDITION	O- di		ACTM DE10E		•	7	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	7	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		20	204	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0 67	1	
	Molybdenum	ppm	ASTM D5185m		67	128	
	Manganese	ppm	ASTM D5185m		<1	5	
	Magnesium	ppm	ASTM D5185m		970	675	
	Calcium	ppm	ASTM D5185m		1152	1417	
	Phosphorus	ppm	ASTM D5185m		1053	695	
	Zinc	ppm	ASTM D5185m		1225	834	
	Sulfur	ppm	ASTM D5185m		3481	2196	
	Oxidation	Abs/.1mm	*ASTM D7414		15.2	23.2	
	Base Number (BN)				8.5	7.0	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.6	10.0	







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0116195 Lab Number : 06191418 Unique Number : 11048170

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 : 29 May 2024 **Tested**

Diagnosed : 29 May 2024 - Wes Davis

250 Alder Avenue Omro, WI US 54963

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)