

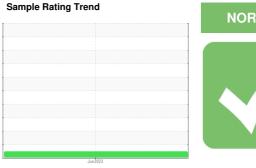
OIL ANALYSIS REPORT





Machine Id **912012** Component **Diesel Engine**

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



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

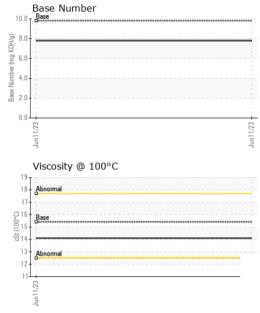
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N 30P 13W40 (-	GAL)			Jun2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069834		
Sample Date		Client Info		11 Jun 2023		
Machine Age	hrs	Client Info		2515		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	45		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	59		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	957		
Calcium	ppm	ASTM D5185m	1070	1052		
Phosphorus	ppm	ASTM D5185m	1150	1085		
Zinc	ppm	ASTM D5185m	1270	1280		
Sulfur	ppm	ASTM D5185m	2060	2836		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	2.4		
Nitration	Abs/cm	*ASTM D7624	>20	12.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8		
, ,	0					



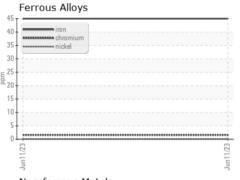
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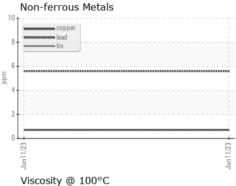


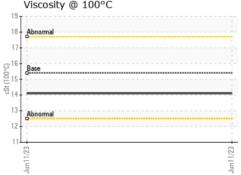
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		

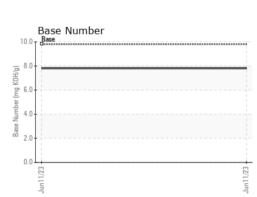
FLUID PROFI		memod			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1		

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10701692 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0069834 : 05984397

Received Diagnosed

: 20 Oct 2023 : 20 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 418 - Metro/MI East

22001 Hoover Dr Warren, MI US 48089 Contact: JIM HESS

jhess@gflenv.com T:

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)

Report Id: GFL418 [WUSCAR] 05984397 (Generated: 10/22/2023 11:44:11) Rev: 1

Contact/Location: JIM HESS - GFL418

F: