

OIL ANALYSIS REPORT

Area (EJZ942) 910025

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

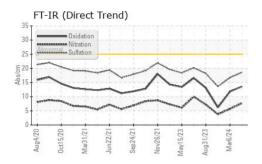
Fluid Condition

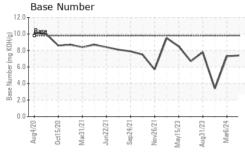
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

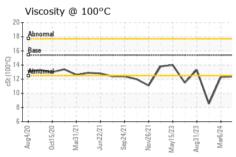
GAL) ### ### ############################								
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0114546	GFL0103426	GFL0074632		
Sample Date		Client Info		29 May 2024	06 Mar 2024	27 Nov 2023		
Machine Age	hrs	Client Info		9224	8945	8682		
Oil Age	hrs	Client Info		542	263	124		
Oil Changed		Client Info		Changed	Not Changd	Changed		
Sample Status				NORMAL	MARGINAL	ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<1.0	1.4	▲ 4.1		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	13	7	3		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	<1		
Titanium	ppm	ASTM D5185m	>2	<1	<1	0		
Silver	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	ppm	ASTM D5185m	>20	2	2	1		
Lead	ppm	ASTM D5185m	>40	<1	<1	0		
Copper	ppm	ASTM D5185m	>330	<1	<1	0		
Tin	ppm	ASTM D5185m	>15	<1	<1	0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	6	6	<1		
Barium	ppm	ASTM D5185m	0	<1	0	0		
Molybdenum	ppm	ASTM D5185m	60	60	57	1 9		
Manganese	ppm	ASTM D5185m	0	<1	<1	0		
Magnesium	ppm	ASTM D5185m	1010	807	775	310		
Calcium	ppm	ASTM D5185m	1070	1016	999	356		
Phosphorus	ppm	ASTM D5185m	1150	1014	951	492		
Zinc	ppm	ASTM D5185m	1270	1122	1053	563		
Sulfur	ppm	ASTM D5185m	2060	2992	2949	1360		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	3	1		
Sodium	ppm	ASTM D5185m		3	2	2		
Potassium	ppm	ASTM D5185m	>20	4	3	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.7	5.7	3.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	16.7	13.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	11.8	6.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	7.3	△ 3.4		

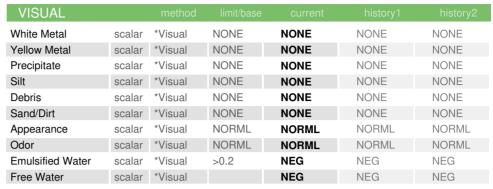


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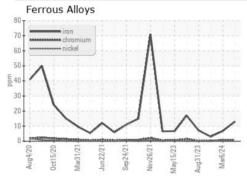


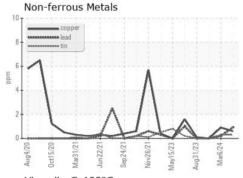


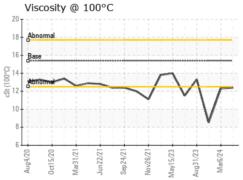
FLUID FNOFENTIES		memou			HISTOLAL	HISTOLYZ	
	Visc @ 100°C	cSt	ASTM D445	15.4	12.4	▲ 12.3	8.53

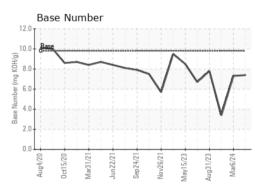
GRAPHS

ELLID BBOBED













Certificate 12367

Laboratory Sample No. Unique Number : 11058444

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0114546 Lab Number : 06196321

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

Received : 31 May 2024 Tested Diagnosed

: 03 Jun 2024 : 03 Jun 2024 - Don Baldridge

2699 Cochran Industrial Blvd Douglasville, GA

GFL Environmental - 095 - Atlanta West

US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618

 st - 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)

Submitted By: Darrell Welch