

OIL ANALYSIS REPORT

Area (SB12084) 927050

Diesel Engine

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

Sample Rating Trend



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

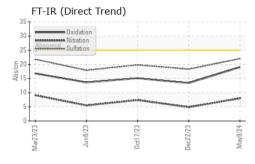
Fluid Condition

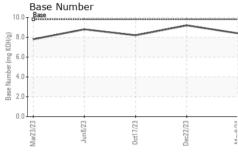
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

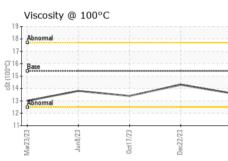
JAL)		Marzuz3	JUNZUZ3	UCIZUZ3 DecZUZ3	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0106272	GFL0066983	GFL0067004	
Sample Date		Client Info		09 May 2024	22 Dec 2023	17 Oct 2023	
Machine Age	hrs	Client Info		15911	14916	14740	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
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	>165	20	9	22	
Chromium	ppm	ASTM D5185m	>5	2	2	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	3	
Lead	ppm	ASTM D5185m	>150	0	<1	<1	
Copper	ppm	ASTM D5185m	>90	2	<1	5	
Tin	ppm	ASTM D5185m	>5	0	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	23	21	
Barium	ppm	ASTM D5185m	0	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	67	59	92	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	1055	904	1374	
Calcium	ppm	ASTM D5185m	1070	1254	1007	1580	
Phosphorus	ppm	ASTM D5185m	1150	1129	1041	1347	
Zinc	ppm	ASTM D5185m	1270	1340	1226	1796	
Sulfur	ppm	ASTM D5185m	2060	3707	3154	4992	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	6	7	△ 36	
Sodium	ppm	ASTM D5185m		4	2	4	
Potassium	ppm	ASTM D5185m	>20	1	2	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.4	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	4.9	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	18.3	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	13.4	15.1	
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	9.2	8.2	
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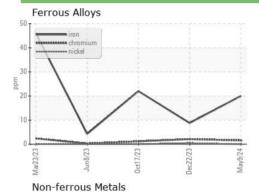


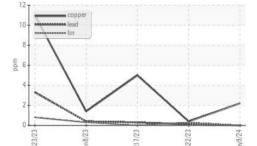


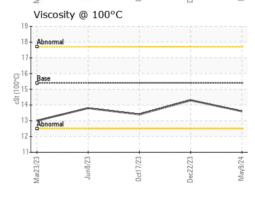
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

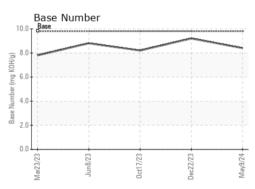
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.3	13.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0106272 Lab Number : 06197321 Unique Number : 11059444 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested**

: 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 916 - Greenbay HC 1799 County Trunk PP DePere, WI

US 54115 Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)