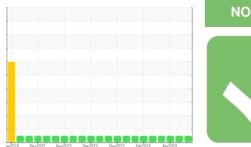


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id **428057-402383**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

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

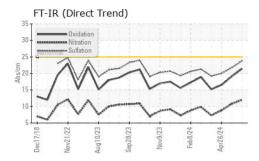
Fluid Condition

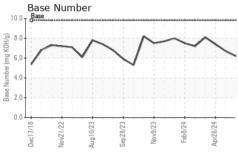
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

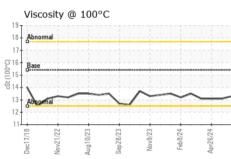
AAL)		6:2010 NO	vzuzz Augzuza ospi	023 1002023 1002024 7	HDIZUZT	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104883	GFL0104829	GFL0104819
Sample Date		Client Info		12 Jun 2024	20 May 2024	26 Apr 2024
Machine Age	mls	Client Info		436124	0	477569
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	15	11	8
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	2
Lead	ppm	ASTM D5185m	>45	3	2	0
Copper	ppm	ASTM D5185m	>85	<1	0	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	63	59
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	930	1018	962
Calcium	ppm	ASTM D5185m	1070	1203	1151	1086
Phosphorus	ppm	ASTM D5185m	1150	1059	1087	1085
Zinc	ppm	ASTM D5185m	1270	1222	1376	1274
Sulfur	ppm	ASTM D5185m	2060	3188	3599	3467
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	7	5
Sodium	ppm	ASTM D5185m		8	4	5
Potassium	ppm	ASTM D5185m	>20	5	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.0	10.8	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	21.7	20.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	19.1	16.5
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	6.7	7.4
_ 3.00 (DIV)	9 1.01119		0.0	V.2	011	



OIL ANALYSIS REPORT



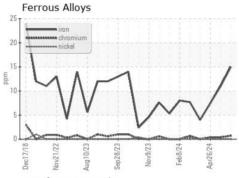


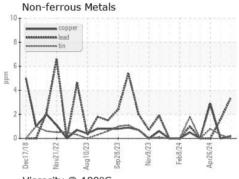


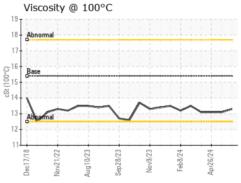
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

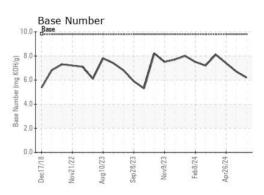
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	13.1	

GRAPHS













Certificate 12367

Laboratory Sample No. : GFL0104883 Lab Number : 06234219

Unique Number : 11123053 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024 **Tested** : 12 Jul 2024

Diagnosed

: 12 Jul 2024 - Wes Davis

3700 West 7th Street Joplin, MO US 64801

GFL Environmental - 820 - Joplin Hauling

Contact: James Jarrett jjarrett@gflenv.com T: (417)310-2802

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: GFL820 [WUSCAR] 06234219 (Generated: 07/12/2024 15:42:50) Rev: 1

Submitted By: James Jarrett