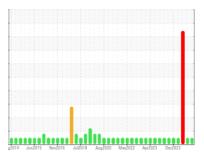


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
11102
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (30 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.

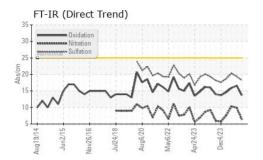
Fluid Condition

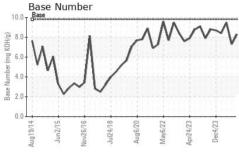
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

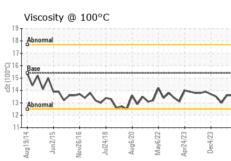
GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098928	GFL0098887	GFL0098862
Sample Date		Client Info		28 May 2024	16 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info		12584	12440	12345
Oil Age	hrs	Client Info		0	62002	62002
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	SEVERE
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	▲ 0.12
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	20	25	39
Chromium	ppm	ASTM D5185m	>10	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	6
Lead	ppm	ASTM D5185m	>20	<1	1	0
Copper	ppm	ASTM D5185m	>125	2	4	<1
Tin	ppm	ASTM D5185m	>4	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	1
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	64	58	96
Manganese	ppm	ASTM D5185m	0	0	1	0
Magnesium	ppm	ASTM D5185m	1010	1022	888	938
Calcium	ppm	ASTM D5185m	1070	1166	1053	1278
Phosphorus	ppm	ASTM D5185m	1150	1328	956	1156
Zinc	ppm	ASTM D5185m	1270	1401	1197	1292
Sulfur	ppm	ASTM D5185m	2060	3903	3157	3406
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	10
Sodium	ppm	ASTM D5185m		0	<1	<u></u> ▲ 562
Potassium	ppm	ASTM D5185m	>20	4	4	▲ 553
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.3	9.9	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.4	20.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	16.6	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.3	9.5
(211)						0.0



OIL ANALYSIS REPORT



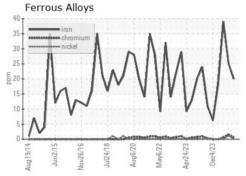


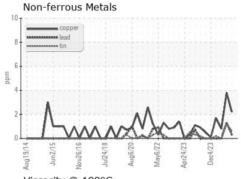


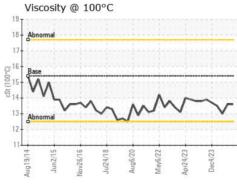
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

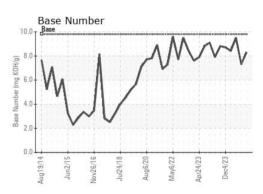
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.0

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11069696 Test Package : FLEET

: GFL0098928 Lab Number : 06202235

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested** : 10 Jun 2024

Diagnosed : 10 Jun 2024 - Wes Davis

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com

GFL Environmental - 084 - Clarksville

T: (931)552-7276 F: (931)572-9674

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: GFL084 [WUSCAR] 06202235 (Generated: 06/10/2024 16:50:35) Rev: 1