

OIL ANALYSIS REPORT

Sample Rating Trend



DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

420053-485 Component Diesel Engine

Machine Id

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

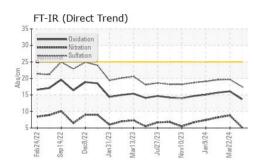
All component wear rates are normal.

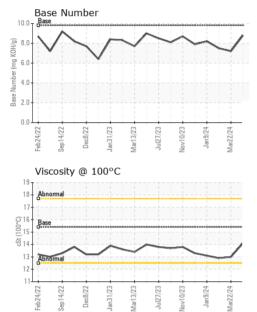
PETRO CANADA DURON SHP 15W40 (600 GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0118657	GFL0110574	GFL011059
Sample Date		Client Info		07 May 2024	22 Mar 2024	22 Feb 202
Machine Age	hrs	Client Info		6900	0	6767
Oil Age	hrs	Client Info		200	600	6767
Oil Changed		Client Info		Not Changd	Changed	Not Chango
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
Fuel		WC Method	>6.0	<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	history
Iron	ppm	ASTM D5185m	>100	6	18	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	3	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	4
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m	>330	4	6	6
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	2	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	57	58
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	982	983	972
Calcium	ppm	ASTM D5185m	1070	1060	1094	1153
Phosphorus	ppm	ASTM D5185m	1150	1043	935	1040
Zinc	ppm	ASTM D5185m	1270	1255	1232	1231
Sulfur	ppm	ASTM D5185m	2060	3579	3269	2981
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	4	4	5
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	1	7	5
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.2	8.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	19.7	19.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history
	Abs/.1mm	*ASTM D7414	. 05	13.7	16.1	15 7
Oxidation	ADS/.111111	ASTIVI D7414	>25	13.7	10.1	15.7



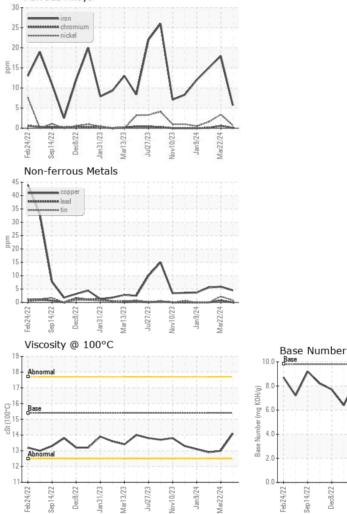
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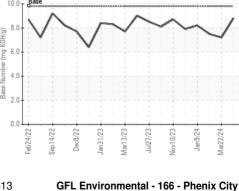




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.0	12.9
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 166 - Phenix City Sample No. : GFL0118657 Received : 13 May 2024 18 Old Brickyard Rd Lab Number : 06176712 Tested : 14 May 2024 Phenix City, AL Unique Number : 11022765 Diagnosed : 14 May 2024 - Wes Davis US 36869 Test Package : FLEET Contact: DEAN PEACE JR Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dean.peace@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL166 [WUSCAR] 06176712 (Generated: 05/14/2024 10:34:06) Rev: 1

Submitted By: DARRIN WRIGHT

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