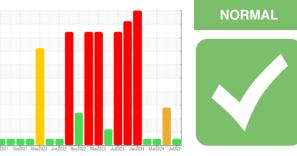


OIL ANALYSIS REPORT

Sample Rating Trend



727109-36 Component Diesel Engine Fluid

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

SAMPLE INFORMATION method limit/base

Recommendation

DIAGNOSIS

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

Machine Id

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

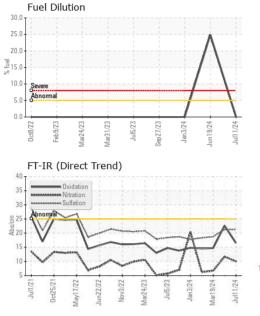
Fluid Condition

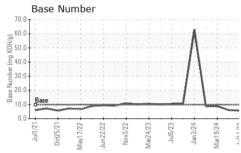
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

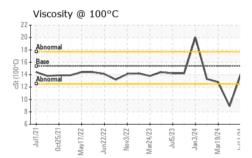
SAMPLE INFOR		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		GFL0070935	GFL0070954	GFL0070962
Sample Date		Client Info		11 Jul 2024	19 Jun 2024	19 Mar 2024
Machine Age	hrs	Client Info		12071	12071	60
Oil Age	hrs	Client Info		11800	0	60
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT		method	limit/base	ourropt	bioton/1	history2
				current	history1	
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	>80	39	28	17
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	6	6	7
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>150	2	1	<1
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	27	10	20
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	75	45	54
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	217	726	861
Calcium	ppm	ASTM D5185m	1070	2012	889	1000
Phosphorus	ppm	ASTM D5185m	1150	963	812	956
Zinc	ppm	ASTM D5185m		1149	1009	1160
Sulfur	ppm	ASTM D5185m	2060	2972	2747	3396
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	12	10
Sodium	ppm	ASTM D5185m		7	3	3
Potassium	ppm	ASTM D5185m	>20	4	8	7
Fuel	%	ASTM D3524	>5	0.2	4 24.9	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.0	11.7	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.3	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	22.6	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	6.1	8.8



OIL ANALYSIS REPORT

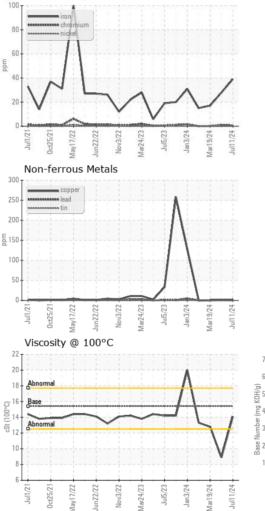


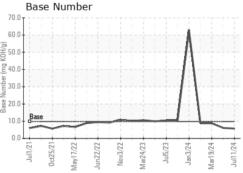




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	▲ 8.9	12.8
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 657 - Charlottesville Hauling Sample No. : GFL0070935 Received : 12 Jul 2024 5498 Richmond Road Lab Number : 06234661 Tested : 16 Jul 2024 Troy, VA US 22974 Unique Number : 11123495 Diagnosed : 16 Jul 2024 - Sean Felton Test Package : FLEET (Additional Tests: PercentFuel) Contact: Brian Ulickas Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bulickas@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: GFL657 [WUSCAR] 06234661 (Generated: 07/16/2024 13:31:23) Rev: 1

Submitted By: TECHNICIAN ACCOUNT