

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



(BD08806) 520027 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)





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

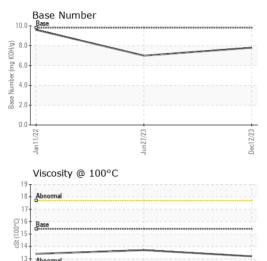
Fluid Condition

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

	14 3111 13 W 40 (0 GAL)			Jun2023 Dec20	23	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104536	GFL0041808	GFL0041829
Sample Date		Client Info		12 Dec 2023	27 Jun 2023	11 Jan 2022
Machine Age	hrs	Client Info		2201	2201	2201
Oil Age	hrs	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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	>120	13	25	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	3	6
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm		>330	9	5	3
Tin	ppm	ASTM D5185m	>15	1	2	1
Antimony	ppm	ASTM D5185m				<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	14	2	64
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	66	66	66
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	955	1052	956
Calcium	ppm	ASTM D5185m		1058	1160	1041
Phosphorus	ppm	ASTM D5185m	1150	1100	1097	997
Zinc	ppm	ASTM D5185m	1270	1249	1392	1245
Sulfur	ppm	ASTM D5185m	2060	3002	3627	2921
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	6	5
Sodium	ppm	ASTM D5185m		2	4	0
Potassium	ppm	ASTM D5185m	>20	6	6	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.5	11.1	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.5	21.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	18.5	17.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	7	9.6
(5.4)	99					3.0



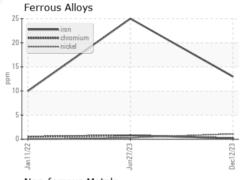
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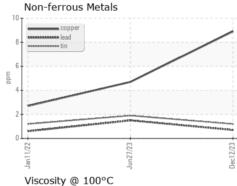


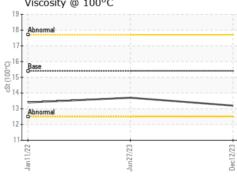
White Metal scala	r *Visual				
	i visuai	NONE	NONE	NONE	NONE
Yellow Metal scala	r *Visual	NONE	NONE	NONE	NONE
Precipitate scala	r *Visual	NONE	NONE	NONE	NONE
Silt scala	r *Visual	NONE	NONE	NONE	NONE
Debris scala	r *Visual	NONE	NONE	NONE	NONE
Sand/Dirt scala	r *Visual	NONE	NONE	NONE	NONE
Appearance scala	r *Visual	NORML	NORML	NORML	NORML
Odor scala	r *Visual	NORML	NORML	NORML	NORML
Emulsified Water scala	r *Visual	>0.2	NEG	NEG	NEG
Free Water scala	r *Visual		NEG	NEG	NEG

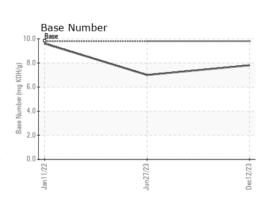
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.7	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10832144

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104536 Recieved : 06060762 Diagnosed

: 16 Jan 2024 : 17 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 461 - Smith Hauling

3239 W. M 28 Brimley, MI US 49715 Contact: Jim Smith jim.smith@gflenv.com T: (906)635-3380

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)