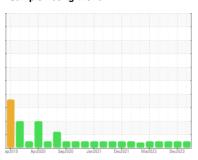


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area (69192P) Machine Id 2859

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 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

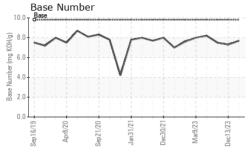
Fluid Condition

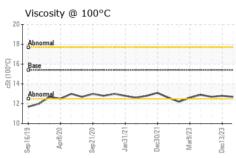
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) #2015 April020 Sept000 Jan2021 Dec2021 Mar2023 Dec2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093753	GFL0093737	GFL0079019
Sample Date		Client Info		15 Feb 2024	13 Dec 2023	28 Aug 2023
Machine Age	hrs	Client Info		10338	10000	9421
Oil Age	hrs	Client Info		0	0	178960
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	2	12	12
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>150	0	0	2
Copper	ppm	ASTM D5185m	>90	0	3	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	4
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	55	55	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	864	889	830
Calcium	ppm	ASTM D5185m	1070	968	1017	1083
Phosphorus	ppm	ASTM D5185m	1150	988	994	947
Zinc	ppm	ASTM D5185m	1270	1205	1217	1187
Sulfur	ppm	ASTM D5185m	2060	2899	2873	3040
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	8	8
Sodium	ppm	ASTM D5185m		0	4	4
Potassium	ppm	ASTM D5185m	>20	0	3	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.2	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.3	19.6
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	15.0	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.3	7.5



OIL ANALYSIS REPORT

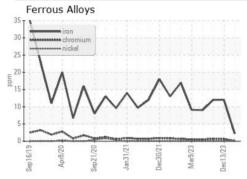


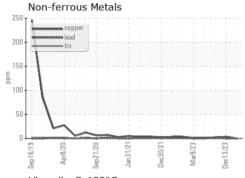


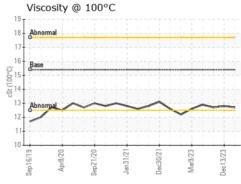
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

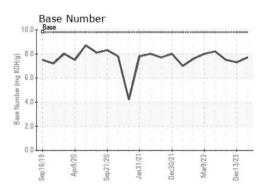
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.8	12.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06094803

Test Package : FLEET

: GFL0093753 Unique Number: 10887656

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 20 Feb 2024 Diagnosed

: 21 Feb 2024 : 21 Feb 2024 - Wes Davis

GFL Environmental - 029 - Wytheville

2390 North 4th Street Wytheville, VA US 24382

F: (276)223-1283

Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (276)223-4476

* - 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)