

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 714063 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (25 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

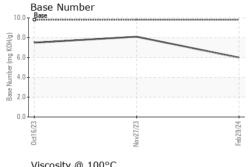
Fluid Condition

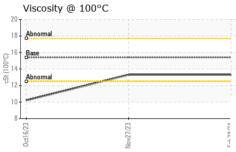
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

/N 3111 13W40 (2.	o GAL)	Oct	2023	Nov2023 Feb20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108966	GFL0101421	GFL0093156
Sample Date		Client Info		29 Feb 2024	27 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info		1706	944	608
Oil Age	hrs	Client Info		944	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
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	36	10	40
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	1	5
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	1	0
Aluminum	ppm	ASTM D5185m	>20	4	2	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	46	53	233
Tin	ppm	ASTM D5185m	>15	1	1	3
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	4	11	188
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	66	58	118
Manganese	ppm	ASTM D5185m	0	<1	1	5
Magnesium	ppm	ASTM D5185m	1010	908	862	700
Calcium	ppm	ASTM D5185m	1070	1080	1006	1364
Phosphorus	ppm	ASTM D5185m	1150	1036	948	676
Zinc	ppm	ASTM D5185m	1270	1211	1161	860
Sulfur	ppm	ASTM D5185m	2060	2613	2701	2501
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	64
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	12	6	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.1	6.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.9	23.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	15.2	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.0	8.1	7.5



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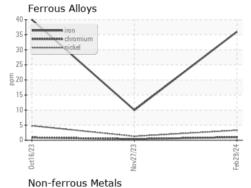


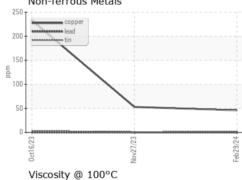


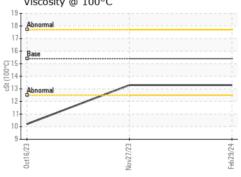
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
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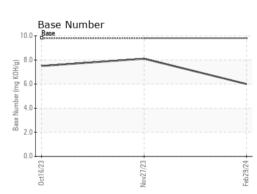
FLUID PROPE	THIES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.3	10.2

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0108966 Lab Number : 06106927 Unique Number : 10910424

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Mar 2024 **Tested** : 04 Mar 2024 Diagnosed

: 04 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514

Test Package : FLEET 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)