

OIL ANALYSIS REPORT

Sample Rating Trend







Component

Machine Id 929066 **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 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

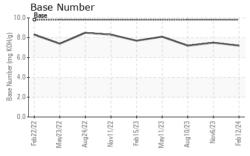
Fluid Condition

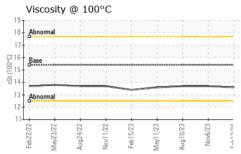
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	, AOLTAN		limit/base	Feb2023 May2023 Aug2023 Nov20 CURRENT	history1	history2
Sample Number	VII (TIOI)	Client Info	mmobacc	GFL0095357	GFL0076941	GFL0076926
Sample Date		Client Info		12 Feb 2024	06 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		10471	9892	9351
Oil Age	hrs	Client Info		588	550	583
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Onone mno		NORMAL	NORMAL	NORMAL
-	ION	and the set	11			
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	>120	10	6	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	3	4
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	3	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	<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	5	17	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	55
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1008	998	914
Calcium	ppm	ASTM D5185m	1070	1172	1225	1097
Phosphorus	ppm	ASTM D5185m	1150	1016	1002	942
Zinc	ppm	ASTM D5185m	1270	1309	1343	1215
Sulfur	ppm	ASTM D5185m	2060	3147	3035	3331
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		8	8	8
Potassium	ppm	ASTM D5185m	>20	6	5	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.7	0.7
		*ASTM D7624	>20	8.5	8.4	7.9
Nitration	Abs/cm					
Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	19.6	20.1	19.7
	Abs/.1mm	*ASTM D7415	>30 limit/base	19.6 current	20.1 history1	19.7 history2
Sulfation FLUID DEGRAE	Abs/.1mm	*ASTM D7415 method	limit/base	current	history1	history2
Sulfation	Abs/.1mm	*ASTM D7415	limit/base >25			



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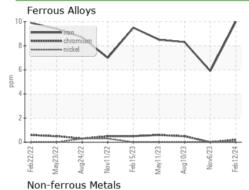


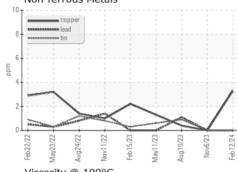


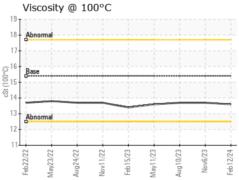
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

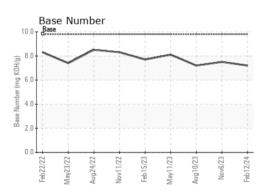
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.7

GRAPHS













Laboratory Sample No. Unique Number : 10887598

: GFL0095357 Lab Number : 06094745

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

Diagnosed

: 20 Feb 2024 : 21 Feb 2024 : 21 Feb 2024 - Wes Davis

GFL Environmental - 930 - Mosinee HC 1372 State Highway 34 MOSINEE, WI

US 54455 Contact: Kirk Koss

T: (715)571-2784

Test Package : FLEET Certificate L2367 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)

Report Id: GFL930 [WUSCAR] 06094745 (Generated: 02/21/2024 15:49:56) Rev: 1

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