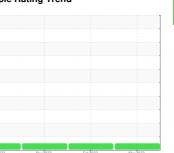


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 920032 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

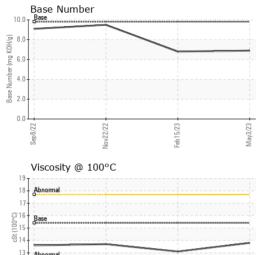
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13W 40 (GAL)	Sep202	2 Nov2022	Feb 2023 M	ay2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0071266	GFL0065049	GFL0060638
Sample Date		Client Info		03 May 2023	15 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info		24542	23984	23324
Oil Age	hrs	Client Info		24542	23984	23324
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>120	16	21	13
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	2	3	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	10	7
Lead	ppm	ASTM D5185m	>40	0	2	1
Copper	ppm	ASTM D5185m		31	181	16
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		li.ee:t/le = = =			
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	1	3	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	64	56
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1001	1029	899
Calcium	ppm	ASTM D5185m	1070	1109	1264	1048
Phosphorus	ppm	ASTM D5185m	1150	1016	1010	935
Zinc	ppm	ASTM D5185m	1270	1328	1338	1133
Sulfur	ppm	ASTM D5185m	2060	3384	3198	3155
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	6	6
Sodium	ppm	ASTM D5185m		6	6	9
Potassium	ppm	ASTM D5185m	>20	2	1	<1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	0.7	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.3	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.6	20.6
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.0	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	6.8	9.5
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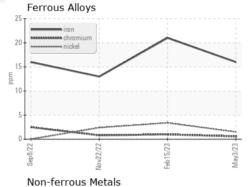
OIL ANALYSIS REPORT

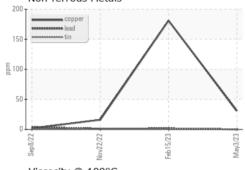


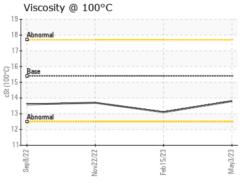
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
		2 3/ 44/		-		

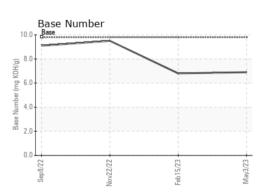
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.1	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10545780 Test Package : FLEET

: GFL0071266 : 05889970

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05 Jul 2023 Received Diagnosed : 06 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 932 - Muskego HC

W144 S6400 College Ct. Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

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)