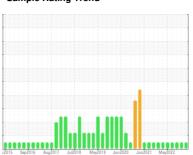


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10609 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (32 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.

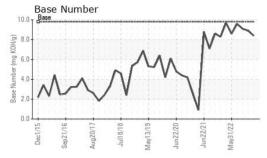
Fluid Condition

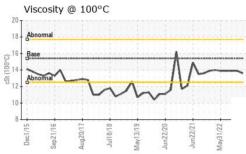
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR						
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092655	GFL0072371	GFL0048857
Sample Date		Client Info		02 Nov 2023	09 May 2023	24 Jan 2023
Machine Age	hrs	Client Info		20208	20208	19910
Oil Age	hrs	Client Info		252	277	6698
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	2	19	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	13
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	11	7	7
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	60	64	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	951	954	911
Calcium	ppm	ASTM D5185m	1070	1108	1164	1038
Phosphorus	ppm	ASTM D5185m	1150			971
		AO IIVI DO IOOIII	1100	1047	1041	971
Zinc	ppm	ASTM D5185m	1270	1047 1316	1041 1238	1151
Zinc Sulfur	ppm					
	ppm	ASTM D5185m	1270	1316	1238	1151
Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1316 3260	1238 3106	1151 3482
Sulfur CONTAMINAN	ppm ITS	ASTM D5185m ASTM D5185m method	1270 2060 limit/base	1316 3260 current	1238 3106 history1	1151 3482 history2
Sulfur CONTAMINAN Silicon	ppm ITS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1270 2060 limit/base	1316 3260 current	1238 3106 history1	1151 3482 history2
Sulfur CONTAMINAN Silicon Sodium	ppm ITS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1270 2060 limit/base >25	1316 3260 current 4 <1	1238 3106 history1 4 2	1151 3482 history2 3 7
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ITS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1270 2060 limit/base >25 >20	1316 3260 current 4 <1 0	1238 3106 history1 4 2 <1	1151 3482 history2 3 7 <1
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1270 2060 limit/base >25 >20 limit/base >6	1316 3260 current 4 <1 0	1238 3106 history1 4 2 <1 history1	1151 3482 history2 3 7 <1
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1270 2060 limit/base >25 >20 limit/base >6	1316 3260 current 4 <1 0 current	1238 3106 history1 4 2 <1 history1 0.2	1151 3482 history2 3 7 <1 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm pbm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1270 2060 limit/base >25 >20 limit/base >6 >20	1316 3260 current 4 <1 0 current 0.2 6.0	1238 3106 history1 4 2 <1 history1 0.2 7.2	1151 3482 history2 3 7 <1 history2 0.2 7.2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm pbm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1270 2060 limit/base >25 >20 limit/base >6 >20 >30	1316 3260 current 4 <1 0 current 0.2 6.0 17.9	1238 3106 history1 4 2 <1 history1 0.2 7.2 20.2	1151 3482 history2 3 7 <1 history2 0.2 7.2 18.7



OIL ANALYSIS REPORT

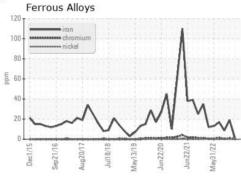


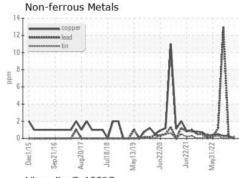


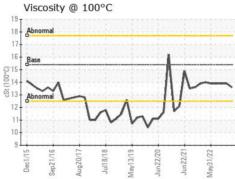
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

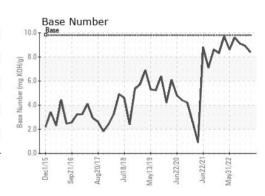
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.9	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0092655 : 05998819 : 10727179 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 07 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG)

2810 Contentnea Road S Wilson, NC US 27893-8501 Contact: SPENCER LIGGON

spencer.liggon@gflenv.com T: (800)207-6618

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)