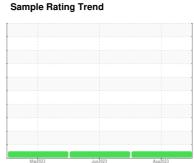


OIL ANALYSIS REPORT

DT



NORMAL



710035 Component

Diesel Engine

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

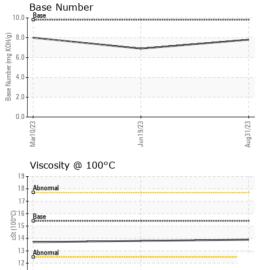
Fluid Condition

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

GAL)		Ma	2023	Jun2023 Aug20	23	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0089506 31 Aug 2023	GFL0084537 19 Jun 2023	GFL0071443 10 Mar 2023
Machine Age	hrs	Client Info		5520	6162	4467
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	19	32	11
Chromium	ppm	ASTM D5185m	>4	1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	1
Aluminum	ppm	ASTM D5185m	>25	<1	8	<1
Lead	ppm	ASTM D5185m	>45	1	3	0
Copper	ppm	ASTM D5185m	>85	2	3	<1
Tin	ppm	ASTM D5185m	>4	<1	2	0
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	2	2	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	50
Manganese	ppm	ASTM D5185m	0	1	2	1
Magnesium	ppm	ASTM D5185m	1010	1006	1005	518
Calcium	ppm	ASTM D5185m	1070	1095	1099	1662
Phosphorus	ppm	ASTM D5185m	1150	1063	1021	654
Zinc	ppm	ASTM D5185m	1270	1298	1291	902
Sulfur	ppm	ASTM D5185m	2060	3647	3525	2427
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	5	4
Sodium	ppm	ASTM D5185m		8	7	6
Potassium	ppm	ASTM D5185m	>20	4	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.3	11.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	21.4	19.5
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	19.8	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	6.9	8.0



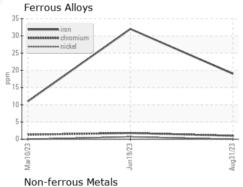
OIL ANALYSIS REPORT

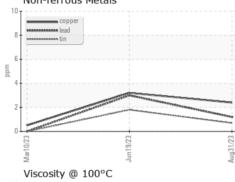


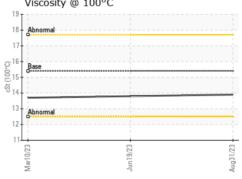
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

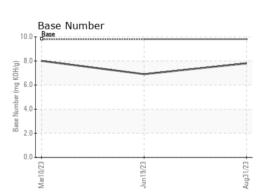
FLUID PROPE	RHES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10658742 Test Package : FLEET

: GFL0089506 : 05957529

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Sep 2023 Diagnosed

: 25 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)