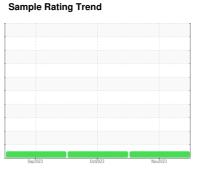


OIL ANALYSIS REPORT

Sam



NORMAL



Machine Id **821083**

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.

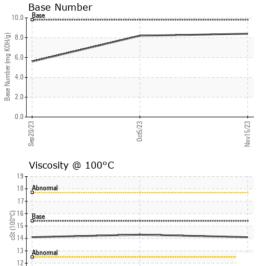
Fluid Condition

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

GAL)		Sej	2023	Oct2023 Nov20	123	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100389	GFL0093400	GFL0093399
Sample Date		Client Info		15 Nov 2023	05 Oct 2023	20 Sep 2023
Machine Age	hrs	Client Info		1083	837	0
Oil Age	hrs	Client Info		0	600	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	7	14	56
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	6
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	5
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	58	64
Manganese	ppm	ASTM D5185m	0	<1	0	2
Magnesium	ppm	ASTM D5185m	1010	901	970	1038
Calcium	ppm	ASTM D5185m	1070	1005	1062	1195
Phosphorus	ppm	ASTM D5185m	1150	961	981	1042
Zinc	ppm	ASTM D5185m	1270	1209	1240	1339
Sulfur	ppm	ASTM D5185m	2060	2737	2978	3393
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	3	7
Sodium	ppm	ASTM D5185m		4	4	6
Potassium	ppm	ASTM D5185m	>20	2	3	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.5	6.8	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.0	29.4
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.2	27.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.2	5.6



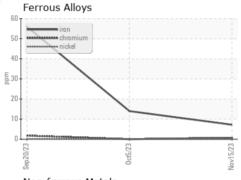
OIL ANALYSIS REPORT

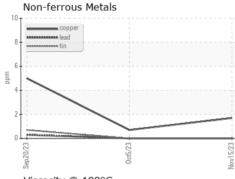


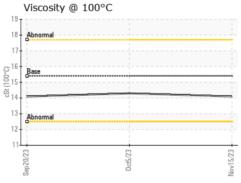
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

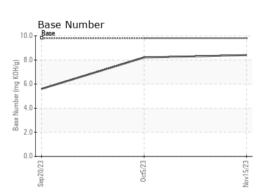
FLUID PROP	EHILO	method			riistory i	Historyz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	14.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10749639 Test Package : FLEET

: GFL0100389 : 06010495

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 17 Nov 2023 : 20 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling 405 East Airport Industrial Road Pauls Valley, OK

US 73075 Contact: Tony Graham

tgraham2@wcamerica.com T:

* - 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)

F: