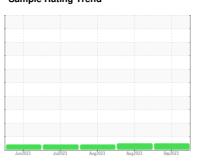


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 914029

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

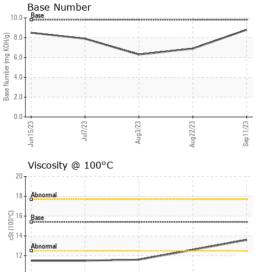
Fluid Condition

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

GAL)		Jun2023	Jul2023	Aug2023 Aug2023	Sep 2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088242	GFL0088252	GFL0088168	
Sample Date		Client Info		11 Sep 2023	22 Aug 2023	03 Aug 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	ATTENTION	
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	>100	8	28	30	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	7	26	29	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	7	27	28	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
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	6	38	65	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	75	25	8	
Manganese	ppm	ASTM D5185m	0	<1	2	1	
Magnesium	ppm	ASTM D5185m	1010	1247	851	833	
Calcium	ppm	ASTM D5185m	1070	1468	1335	1480	
Phosphorus	ppm	ASTM D5185m	1150	1328	821	774	
Zinc	ppm	ASTM D5185m	1270	1637	978	957	
Sulfur	ppm	ASTM D5185m	2060	4656	3570	4076	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	8	7	
Sodium	ppm	ASTM D5185m		2	3	0	
Potassium	ppm	ASTM D5185m	>20	14	55	63	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.9	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.7	20.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.2	15.7	
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	6.9	6.3	
	IIIQ I\UII/Q	AO HVI DE000	0.0	0.0	0.0	0.0	



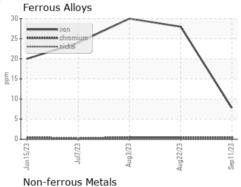
OIL ANALYSIS REPORT

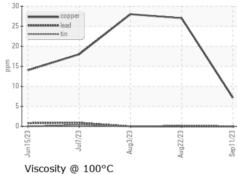


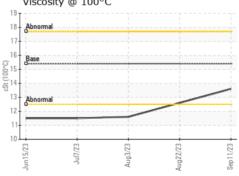
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIFS	method	limit/base	current	history1	historv2

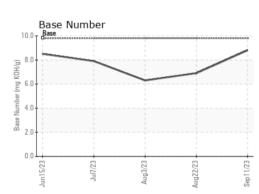
FLUID FNOF		memod			Tilstory	riistory
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	12.6	▲ 11.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088242 : 05955811 : 10657024

Received Diagnosed

: 19 Sep 2023 : 21 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 820 - Joplin Hauling

3700 West 7th Street Joplin, MO US 64801

Contact: James Jarrett jjarrett@gflenv.com

T: (417)310-2802

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)