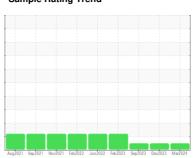


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



729036-361501

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

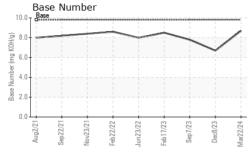
Fluid Condition

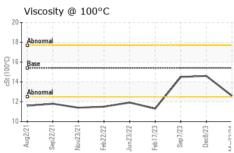
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIK) Aug2021 Sup2021 Nov2021 Feb2022 Jun2022 Feb2023 Sup2023 Dec2023 Mar2024						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115488	GFL0094232	GFL0089732
Sample Date		Client Info		22 Mar 2024	08 Dec 2023	07 Sep 2023
Machine Age	hrs	Client Info		27189	26680	26308
Oil Age	hrs	Client Info		509	372	1076
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	6	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	32	26
Barium	ppm	ASTM D5185m	0	0	11	0
Molybdenum	ppm	ASTM D5185m	60	59	63	49
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	885	696	621
Calcium	ppm	ASTM D5185m	1070	1069	1835	1590
Phosphorus	ppm	ASTM D5185m	1150	1056	948	803
Zinc	ppm	ASTM D5185m	1270	1251	1161	1031
Sulfur	ppm	ASTM D5185m	2060	3430	3356	3192
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		18	7	4
Potassium	ppm	ASTM D5185m	>20	10	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.5	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	8.3	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	18.4	18.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.9	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	6.7	7.8



OIL ANALYSIS REPORT

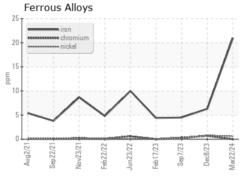


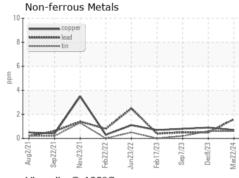


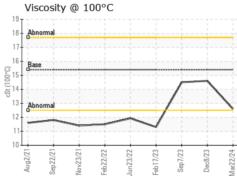
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

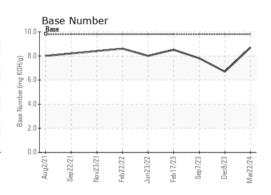
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	14.6	14.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06129107 Unique Number : 10943258

: GFL0115488

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

Received : 26 Mar 2024 **Tested** Diagnosed

: 27 Mar 2024 : 27 Mar 2024 - Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@gflenv.com

Test Package : FLEET 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)

T:

F: