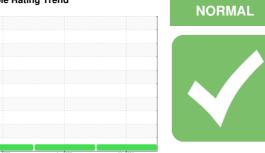


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
720009
Component
Diesel Engine
Fluid

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

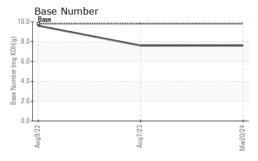
Fluid Condition

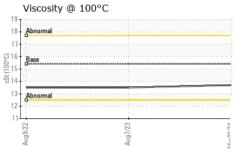
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 1344-0 (-	′	Au	Aug ² 022 Aug ² 023 Mar ² 024			
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108379	GFL0071277	GFL0056052
Sample Date		Client Info		20 Mar 2024	07 Aug 2023	09 Aug 2022
Machine Age	hrs	Client Info		31224	33379	28294
Oil Age	hrs	Client Info		0	33379	28294
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	5	8	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	6	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	1	3
Tin	ppm	ASTM D5185m	>15	0	<1	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	0	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	62	67
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	960	992	895
Calcium	ppm	ASTM D5185m	1070	1088	1095	1098
Phosphorus	ppm	ASTM D5185m	1150	949	1075	991
Zinc	ppm	ASTM D5185m	1270	1328	1280	1192
Sulfur	ppm	ASTM D5185m	2060	3736	3726	3559
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	5
Sodium	ppm	ASTM D5185m		31	3	4
Potassium	ppm	ASTM D5185m	>20	17	<1	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.9	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.6	20.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.6	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.6	9.6



OIL ANALYSIS REPORT

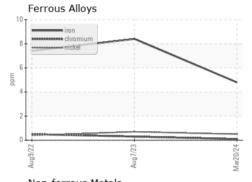


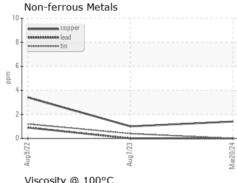


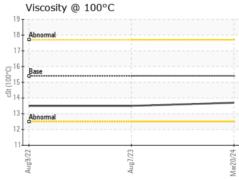
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

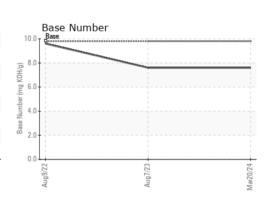
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06130240

Test Package : FLEET

: GFL0108379 Unique Number : 10949705

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

: 27 Mar 2024 : 27 Mar 2024 Diagnosed : 27 Mar 2024 - Wes Davis

GFL Environmental - 932 - Muskego HC

W144 S6400 College Ct. Muskego, WI

US 53150 Contact: Brian Schlomann brian.schlomann@gflenv.com

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: (262)510-4586