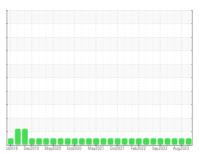


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



(67953P) Machine Id 10885

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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

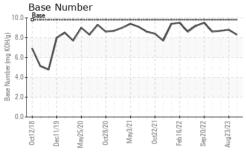
Fluid Condition

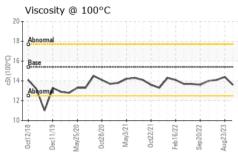
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

cź018 Docź019 Mayź020 Ocź020 Mayź021 Ocź021 Feb2022 Sep2022 Augź023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093771	GFL0079024	GFL0079043
Sample Date		Client Info		08 Feb 2024	23 Aug 2023	19 Jun 2023
Machine Age	hrs	Client Info		10387	9582	9149
Oil Age	hrs	Client Info		73890	0	73890
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	22	23	26
Chromium	ppm	ASTM D5185m	>5	4	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>15	2	2	<1
Lead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm	ASTM D5185m	>100	1	1	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	<1	<1
Barium	ppm	ASTM D5185m	0	0	3	<1
Molybdenum	ppm	ASTM D5185m	60	54	64	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	842	967	1079
Calcium	ppm	ASTM D5185m	1070	943	1088	1211
Phosphorus	ppm	ASTM D5185m	1150	911	1077	1144
Zinc	ppm	ASTM D5185m	1270	1105	1280	1433
Sulfur	ppm	ASTM D5185m	2060	3163	3273	3878
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	9	15
Sodium	ppm	ASTM D5185m		13	10	22
Potassium	ppm	ASTM D5185m	>20	4	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	5.9	8.4	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	20.2	20.8
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	15.6	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.8	8.7



OIL ANALYSIS REPORT

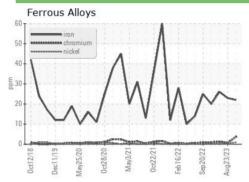


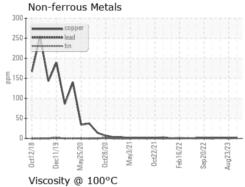


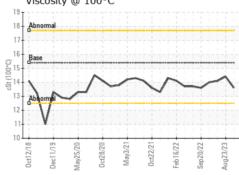
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

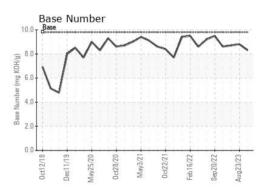
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.4	14.1

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06092209

: GFL0093771

Unique Number : 10885062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Feb 2024 : 19 Feb 2024 **Tested**

Diagnosed : 19 Feb 2024 - Wes Davis

GFL Environmental - 029 - Wytheville

2390 North 4th Street Wytheville, VA US 24382

Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.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.

T: (276)223-4476 F: (276)223-1283

Submitted By: CHARLES CORVIN

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Test Package : FLEET