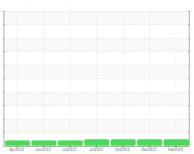


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 913155 Component Diesel Engine Fluid

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

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

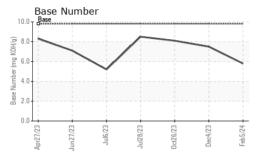
Fluid Condition

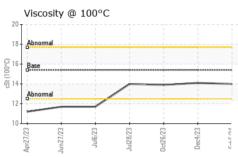
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	<u> </u>	Apr2023	Junzuza Julzuza	Jul2023 Oct2023 Dec2023	Feb2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099267	GFL0078292	GFL0080044
Sample Date		Client Info		05 Feb 2024	04 Dec 2023	26 Oct 2023
Machine Age	hrs	Client Info		2390	1974	1679
Oil Age	hrs	Client Info		0	0	177
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>120	21	13	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	12	8	8
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	4	3	4
Tin	ppm		>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	0	13	3	4
Molybdenum	ppm	ASTM D5185m	60	65	56	53
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	958	867	858
Calcium	ppm	ASTM D5185m	1070	1073	1000	1029
Phosphorus	ppm	ASTM D5185m	1150	979	923	976
Zinc	ppm	ASTM D5185m	1270	1257	1095	1110
Sulfur	ppm	ASTM D5185m	2060	3072	2963	3285
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	8	8
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	32	26	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.2	7.9	6.6
Sulfation	Abs/.1mm	*ASTM D7415		22.6	20.2	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	16.5	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	7.5	8.1
(314)	39					



OIL ANALYSIS REPORT



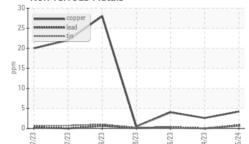


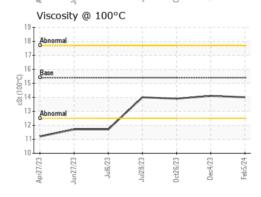
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

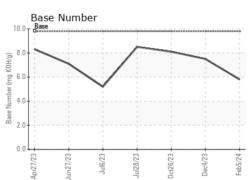
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.1	13.9

GRAPHS













Laboratory Sample No.

Lab Number : 06086590 Unique Number : 10874035 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0099267 Received : 12 Feb 2024

Tested Diagnosed

: 13 Feb 2024 : 13 Feb 2024 - Wes Davis

GFL Environmental - 844 - Princeton Hauling

10129 Highway 62 West Princeton, KY

US 42445 Contact: ROBERT THIBAULT

robert.thibault@gflenv.com

* - 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: (931)237-6045