

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 914052 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

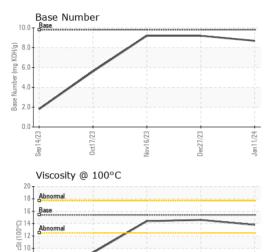
Fluid Condition

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

		SSPECES	00000			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104257	GFL0104399	GFL0059320
Sample Date		Client Info		11 Jan 2024	27 Dec 2023	16 Nov 2023
Machine Age	hrs	Client Info		1271	1182	877
Oil Age	hrs	Client Info		675	1182	291
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel	1011	WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		<1.0 NEG	NEG	NEG
		WC Method	>0.2	NEG	NEG	
Glycol		vvC ivietriod		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	0	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	54	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	913	902	950
Calcium	ppm	ASTM D5185m	1070	963	904	1054
Phosphorus	ppm	ASTM D5185m	1150	1050	1009	1036
Zinc	ppm	ASTM D5185m	1270	1243	1192	1226
Sulfur	ppm	ASTM D5185m	2060	3034	3036	3190
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	4
Sodium	ppm	ASTM D5185m		<1	<1	2
Potassium	ppm	ASTM D5185m	>20	2	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	4.1	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.4	18.0
FLUID DEGRADATION method limit/base current history1 history2						
					12.7	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1		13.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	9.2	9.2



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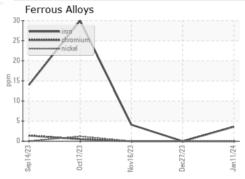
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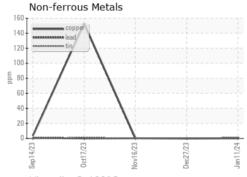
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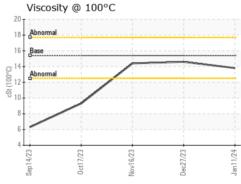
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual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

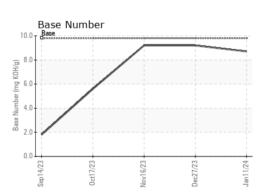
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.6	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10832133 Test Package : FLEET

: GFL0104257 : 06060751

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 17 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Tony Esquina

tesquina@gflenv.com

T: F:

* - 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)