

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 10678

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 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.

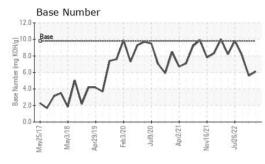
Fluid Condition

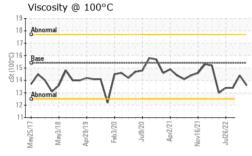
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0074612	GFL0074602	GFL0074554
Sample Date		Client Info		03 Aug 2023	11 May 2023	21 Feb 2023
Machine Age	hrs	Client Info		18709	17534	17534
Oil Age	hrs	Client Info		592	17534	15616
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method	20.0	NEG	NEG	NEG
,	0		lineit/le e	-		
WEAR METAL	3	method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>75	46	62	47
Chromium	ppm	ASTM D5185m	>5	2	3	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m		4	10	<u> </u>
Lead	ppm	ASTM D5185m	>25	<1	4	5
Copper	ppm	ASTM D5185m		0	2	2
Tin	ppm	ASTM D5185m	>4	<1	1	3
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		4	23	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	71	76	62
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1104	1039	936
Calcium	ppm	ASTM D5185m	1070	1226	1275	1193
Phosphorus	ppm	ASTM D5185m	1150	1161	1068	981
Zinc Sulfur	ppm	ASTM D5185m	1270	1506	1361	1241 3240
	ppm	ASTM D5185m	2060	3835	3283	
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	8	9	11
Sodium	ppm	ASTM D5185m	00	14	73	8
Potassium	ppm	ASTM D5185m	-	1	4	2
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.9	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.4	12.9	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	26.4	20.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	23.9	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	5.6	8.1

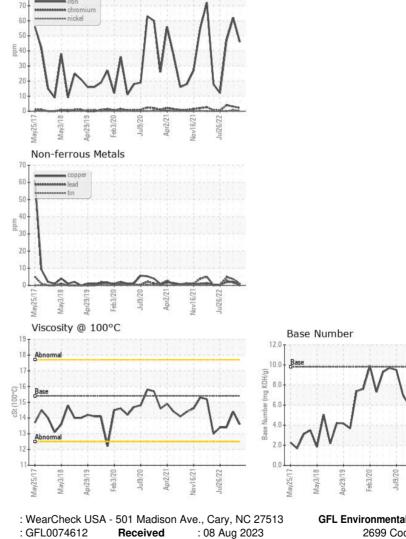


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.4	13.4
GRAPHS						
Ferrous Alloys						



: 09 Aug 2023

: Wes Davis

GFL Environmental - 095 - Atlanta West 2699 Cochran Industrial Blvd Douglasville, GA US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618 06:2012) F:

Apr2/21

Vov16/21



 Certificate 12367
 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)

Diagnosed

Diagnostician

: 05918360

: 10590274

Laboratory

Sample No.

Lab Number

Unique Number