

OIL ANALYSIS REPORT

Area (YA117923) PETERBILT 2564

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.



SAMPLE INFORM	NATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0128317	GFL0111394	GFL0072242		
Sample Date		Client Info		08 Jul 2024	03 Feb 2024	12 Jul 2023		
Machine Age	mls	Client Info		25192	0	216167		
Oil Age	mls	Client Info		0	0	23200		
Oil Changed		Client Info		N/A	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATI	ON	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 METALS method limit/base current history1 history2								
Iron	ppm	ASTM D5185m	>165	16	10	12		
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	<1	<1		
Titanium	ppm	ASTM D5185m	>2	0	<1	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	1	<1	<1		
Lead	ppm	ASTM D5185m	>150	0	1	0		
Copper	ppm	ASTM D5185m	>90	<1	2	<1		
Tin	ppm	ASTM D5185m	>5	0	<1	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	5	4	6		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	58	63	62		
Manganese	ppm	ASTM D5185m	0	0	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	926	957	862		
Calcium	ppm	ASTM D5185m	1070	1058	990	1067		
Phosphorus	ppm	ASTM D5185m	1150	1052	927	1017		
Zinc	ppm	ASTM D5185m	1270	1266	1224	1148		
Sulfur	ppm	ASTM D5185m	2060	3587	2807	2874		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>35	4	5	7		
Sodium	ppm	ASTM D5185m		4	7	<1		
Potassium	ppm	ASTM D5185m	>20	2	7	3		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>7.5	0.9	0.3	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	9.7	6.8	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	18.4	19.9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	13.6	14.6		
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	9.1	8.0	8.7		



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VISUAL		method			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	13.4	13.2	13.7
GRAPHS						

Ferrous Alloys

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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 004 - Newport - Central Coast Sample No. 427 Roberts Road : GFL0128317 Received : 17 Jul 2024 Lab Number : 06239815 Tested : 18 Jul 2024 Newport, NC US 28570 Unique Number : 11128649 Diagnosed : 18 Jul 2024 - Wes Davis Test Package : FLEET Contact: Marguis Williams Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. marquis.williams@gflenv.com T: * - 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)

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Submitted By: GFL004 and GLF112 - Marquis Williams

Page 2 of 2

F: (252)223-6010