

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 10297

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 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.

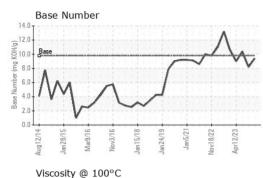
Fluid Condition

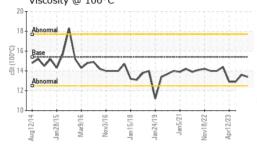
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)						
	ΜΑΤΙΟΝ	g2014 Jan201	s Mar2016 Nov2016 Jan limit/base	2018 Jan2019 Jan2021 Nov2022 Current	Apr2023 history1	history2
			mmubase			
Sample Number		Client Info		GFL0088387	GFL0070048	GFL0070045
Sample Date	la ura	Client Info		11 Jul 2023	13 Jun 2023	02 May 2023
Machine Age	hrs	Client Info		4437	73951	73951
Dil Age	hrs	Client Info		73951	73951	73951
Dil Changed		Client Info		N/A NORMAL	Changed	Not Changd
Sample Status				-	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	12	14	49
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	<1	7
ead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm	ASTM D5185m	>100	2	1	4
Γin	ppm	ASTM D5185m	>4	<1	0	<1
/anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	60	52	57	66
Manganese	ppm	ASTM D5185m	0	<1	<1	2
/agnesium	ppm	ASTM D5185m	1010	907	961	1047
Calcium	ppm	ASTM D5185m	1070	1176	1067	1184
Phosphorus	ppm	ASTM D5185m	1150	1004	1013	1133
Zinc	ppm	ASTM D5185m	1270	1247	1244	1419
Sulfur	ppm	ASTM D5185m	2060	3708	3833	4083
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	6 5
Sodium	ppm	ASTM D5185m		5	7	31
Potassium	ppm	ASTM D5185m	>20	4	3	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.5	1
Nitration	Abs/cm	*ASTM D7624		6.1	5.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415		19.8	18.9	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.7	14.9
JAIUAUUII	MU5/.111111	AUTIVI D/414	220	14.7	14./	14.3

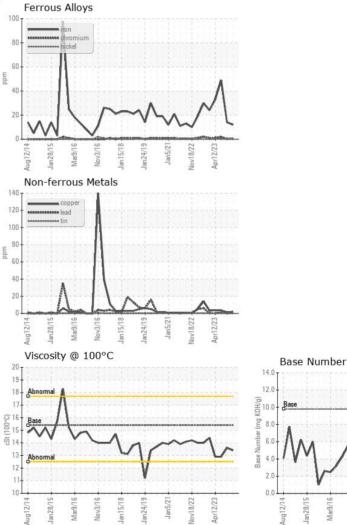


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	13.6	12.9
GRAPHS						



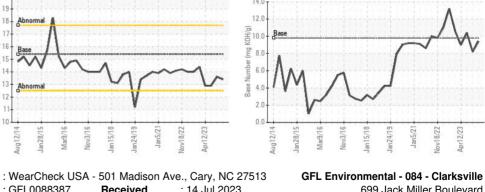
Received

Diagnosed

Diagnostician : Wes Davis

: 14 Jul 2023

: 17 Jul 2023



699 Jack Miller Boulevard Clarksville, TN US 37042 Contact: ROBERT THIBAULT robert.thibault@gflenv.com T: (931)552-7276 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (931)572-9674



Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number : 10560532

Test Package : FLEET

: GFL0088387

: 05899176

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.

Submitted By: ROBERT THIBAULT