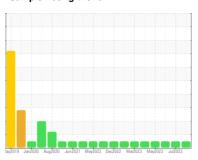


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2824
Component
Diesel Engine
Fluid

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

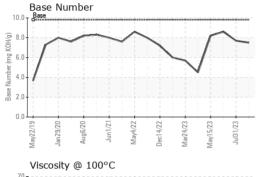
Fluid Condition

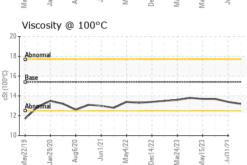
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAL) Taylo19 Jando20 Auglo20 Jundo21 Maylo22 Declor2 Mado23 Maylo23 Julo03 Taylo19 Jando20 Auglo20 Jundo21 Maylo22 Declor2 Mado23 Maylo23 Julo023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088416	GFL0088391	GFL0088388
Sample Date		Client Info		29 Aug 2023	31 Jul 2023	11 Jul 2023
Machine Age	hrs	Client Info		8061	7797	7797
Oil Age	hrs	Client Info		7797	7282	7282
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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
Iron	ppm	ASTM D5185m	>165	17	13	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>150	0	0	<1
Copper	ppm	ASTM D5185m	>90	6	2	3
Tin	ppm	ASTM D5185m	>5	0	<1	<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	0	<1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	61	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	913	994	976
Calcium	ppm	ASTM D5185m	1070	1067	1151	1133
Phosphorus	ppm	ASTM D5185m	1150	993	1086	1070
Zinc	ppm	ASTM D5185m	1270	1235	1322	1335
Sulfur	ppm	ASTM D5185m	2060	3442	3717	3923
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	7	5
Sodium	ppm	ASTM D5185m		5	3	2
Potassium	ppm	ASTM D5185m	>20	5	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.2	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	19.8	19.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.3	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.7	8.6
Dasc Number (DIN)	my Normy	710 TIVI D2030	0.0	7.0	1.1	0.0



OIL ANALYSIS REPORT

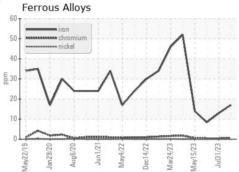


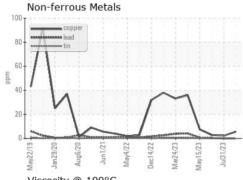


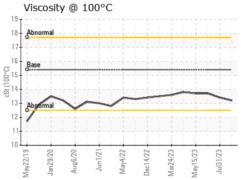
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

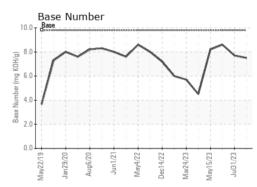
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.4	13.7

GRAPHS













Laboratory Sample No. Lab Number

Unique Number

: GFL0088416 : 05940106 : 10630718

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Aug 2023 Diagnosed

: 01 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com

T: (931)552-7276 F: (931)572-9674

Test Package : FLEET Certificate L2367 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)