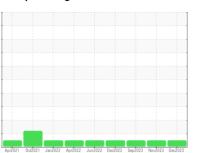


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
7837M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

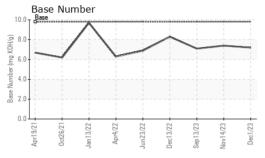
Fluid Condition

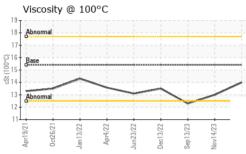
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

"Apráloz I Octáloz I Janálozz Aprálozz Junálozz Decálozz Sepáloza Neváloza Decáloza"						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096587	GFL0096573	GFL0091545
Sample Date		Client Info		01 Dec 2023	14 Nov 2023	13 Sep 2023
Machine Age	hrs	Client Info		14715	14582	14089
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	1.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	28	6	18
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	4
Lead	ppm	ASTM D5185m	>40	1	1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m		2	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	<1	126
Barium	ppm	ASTM D5185m		2	9	0
Molybdenum	ppm	ASTM D5185m	60	53	33	15
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	829	491	227
Calcium	ppm	ASTM D5185m	1070	1175	859	2120
Phosphorus	ppm	ASTM D5185m	1150	816	450	990
Zinc	ppm	ASTM D5185m	1270	973	887	1273
Sulfur	ppm	ASTM D5185m	2060	2360	1460	4166
						history2
Silicon	ppm	ASTM D5185m	>25	14	3	9
Sodium	ppm	ASTM D5185m		24	8	6
Potassium	ppm	ASTM D5185m	>20	3	4	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.3
Nitration	Abs/cm	*ASTM D7624		9.4	7.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415		19.7	19.8	19.9
FLUID DEGRADATION method limit/base current history1 history2						
0.11.11	Abs/.1mm	*ASTM D7414	>25	16.5	16.1	15.8
()vidation						
Oxidation Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	7.4	7.1



OIL ANALYSIS REPORT

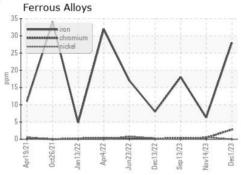


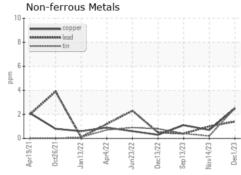


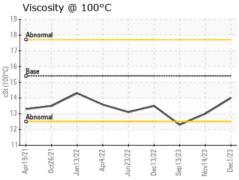
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

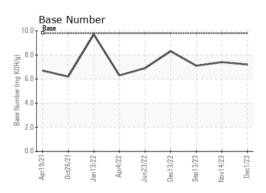
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.0	12.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10777201 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096587 : 06027410

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

Received Diagnosed Diagnostician : Wes Davis

: 07 Dec 2023 : 08 Dec 2023 GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

* - 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)