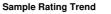


OIL ANALYSIS REPORT





726038-310028

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.

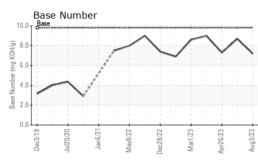
Fluid Condition

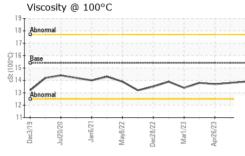
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	hrs	Client Info Client Info Client Info		GFL0087141 03 Aug 2023	GFL0083820 31 May 2023	GFL0070398 26 Apr 2023
Machine Age Oil Age Oil Changed				03 Aug 2023	31 May 2023	26 Apr 2023
Oil Age Oil Changed		Client Info				- P
Oil Changed	bro			15415	15218	15020
-	hrs	Client Info		0	0	600
Sample Status		Client Info		Not Changd	Not Changd	Changed
				NORMAL	NORMAL	NORMAL
CONTAMINATIO	DN .	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	21	11	12
	ppm	ASTM D5185m	>4	1	<1	<1
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m	>2	<1	0	0
	ppm	ASTM D5185m		6	2	2
	ppm	ASTM D5185m	>45	<1	0	0
-	ppm	ASTM D5185m		2	<1	1
	ppm	ASTM D5185m	>4	- <1	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
_	ppm	ASTM D5185m	0	0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	60	63	61	58
	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m	1010	935	944	987
U	ppm		1070	1121	1069	1047
	ppm	ASTM D5185m	1150	1043	1024	1037
	ppm	ASTM D5185m	1270	1264	1269	1287
	ppm	ASTM D5185m	2060	3044	3488	3659
CONTAMINANT	īS -	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	11	7	4
	ppm	ASTM D5185m		6	4	5
	ppm	ASTM D5185m	>20	8	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.0	7.6	8.0
	Abs/.1mm	*ASTM D7415	>30	20.9	19.9	18.1
	ATION	method	limit/base	current	history1	history2
FLUID DEGRAD						
	Abs/.1mm	*ASTM D7414	>25	18.3	15.9	16.2

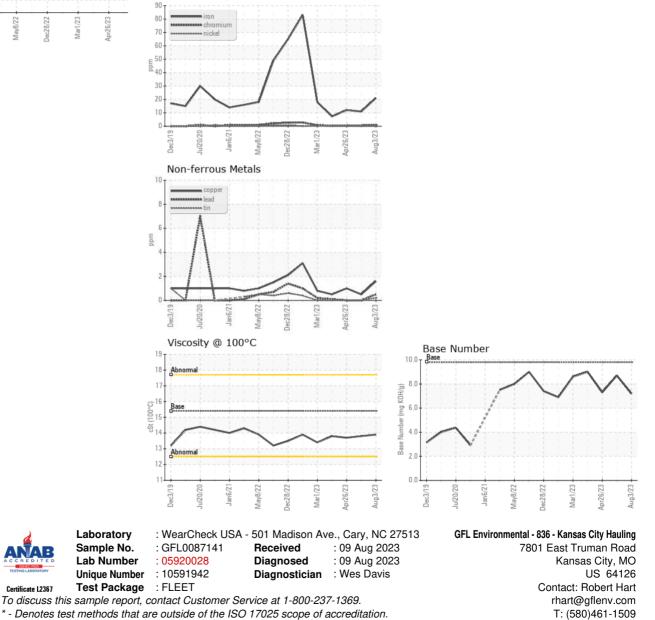


OIL ANALYSIS REPORT





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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	13.7
GRAPHS						
Ferrous Alloys						





* - 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)

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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