

(26831XA) Machine Id 528006

Component Diesel Engine

RECOMMENDATION

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

No corrective action is recommended at this time. Oil and filter change
at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

-	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0119275	GFL0070958	GFL0058106
;	Sample Date		Client Info		15 Jun 2024	16 May 2024	09 May 2024
I	Machine Age	hrs	Client Info		14902	14684	14640
(Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Not Changd
;	Sample Status				ATTENTION	ATTENTION	ABNORMAL
	Iron	ppm	ASTM D5185m	>100	21	17	13
(Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
-	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
1	Aluminum	ppm	ASTM D5185m	>20	3	3	2
l	Lead	ppm	ASTM D5185m	>40	0	<1	<1
(Copper	ppm	ASTM D5185m	>330	4	3	<1
-	Tin	ppm	ASTM D5185m	>15	<1	0	0
`	Vanadium	ppm	ASTM D5185m		0	<1	0
١	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
`	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						_	_
	Silicon	ppm	ASTM D5185m	>25	9	7	7
	Potassium	ppm	ASTM D5185m	>20	15	11	11
	Fuel	%	ASTM D3524	>5	<1.0	<1.0	A 2.5
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.4	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	18.6	18.6
	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
9	Sodium	ppm	ASTM D5185m		6	4	3
	Boron	ppm	ASTM D5185m	0	28	62	67
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	30	28	26
	Manganese	ppm	ASTM D5185m	0	1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	785	754	709
	Calcium	ppm	ASTM D5185m	1070	1428	1473	1354
	Phosphorus	ppm	ASTM D5185m	1150	902	860	787
	Zinc	ppm	ASTM D5185m	1270	1016	982	895
	Sulfur	ppm	ASTM D5185m	2060	3642	3733	3399
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.5	13.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.2	6.8	7.3
	Visc @ 100°C	cSt	ASTM D445	15.4	12.2	11.8	▲ 11.8
		501	. 10 111 0 110	10.1	<u> </u>		

NORMAL

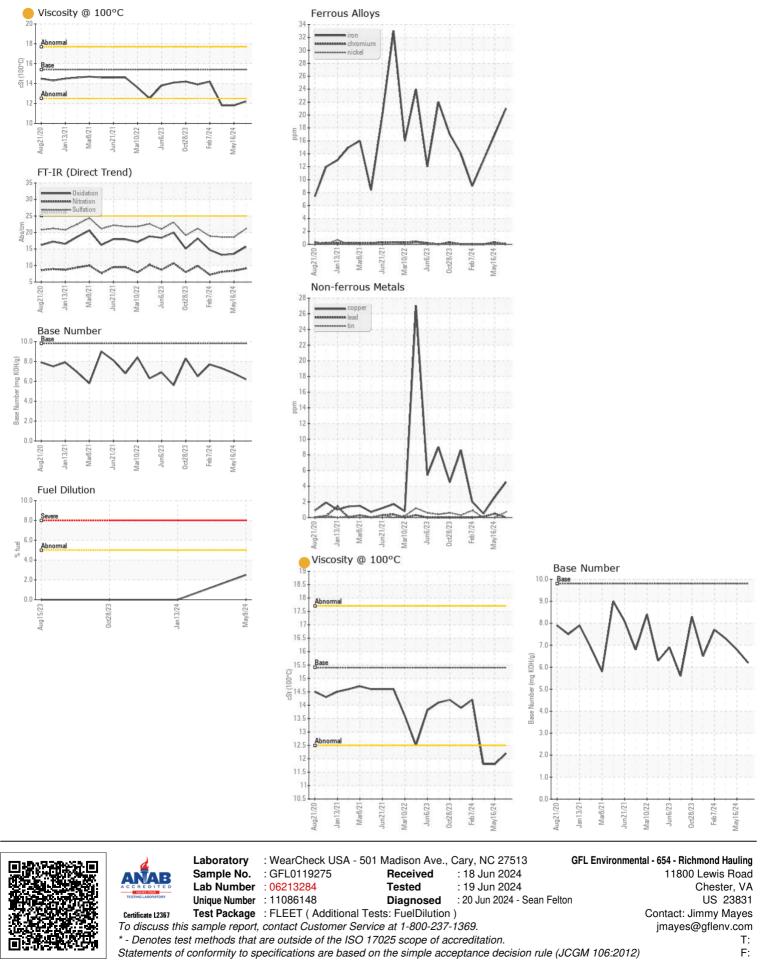
NORMAL

ATTENTION

WEAR

CONTAMINATION

FLUID CONDITION



Submitted By: TECHNICIAN ACCOUNT Page 2 of 2