

OIL ANALYSIS REPORT

Area (57KM8B) 720023-310080

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

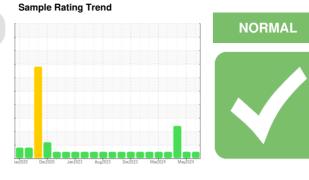
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

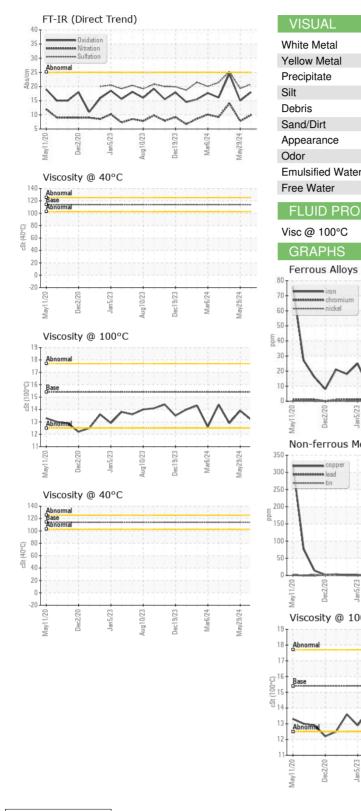
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



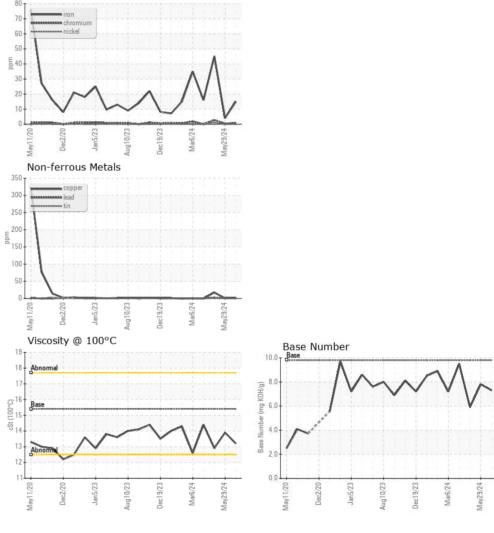
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124043	GFL0120152	GFL0117250
Sample Date		Client Info		27 Jun 2024	29 May 2024	03 May 2024
Machine Age	hrs	Client Info		10165	9984	9847
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>100	15	4	45
Chromium			>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>20	0	0	1
	ppm		24	-		1
Titanium	ppm	ASTM D5185m	0	<1	<1	
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	2	5
Lead	ppm	ASTM D5185m		<1	<1	2
Copper	ppm	ASTM D5185m		1	<1	17
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	14
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	58	62	50
Manganese	ppm	ASTM D5185m	0	<1	0	2
Magnesium	ppm	ASTM D5185m	1010	987	931	613
Calcium	ppm	ASTM D5185m	1070	1241	1133	1495
Phosphorus	ppm	ASTM D5185m	1150	1087	1086	824
Zinc	ppm	ASTM D5185m	1270	1353	1224	1007
Sulfur	ppm	ASTM D5185m	2060	3770	3295	2862
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	11	10
Sodium	ppm	ASTM D5185m		6	2	<u> </u>
Potassium	ppm	ASTM D5185m	>20	4	2	2 6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.1	1.4
Nitration	Abs/cm	*ASTM D7624	>20	9.9	7.8	14.1
Sulfation	Abs/.1mm	*ASTM D7624	>20	20.8	19.3	25.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Out the start	Abs/.1mm	*ASTM D7414	>25	18.0	15.0	24.5
Oxidation	A03/.111111		200	10.0	10.0	=
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.8	5.9

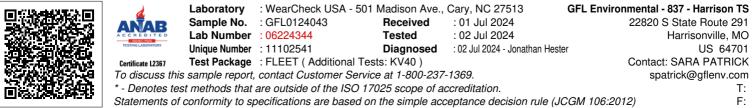


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
	DTIEO		11 1.0			
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.9	12.9
GRAPHS						





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Submitted By: ? Page 2 of 2