

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

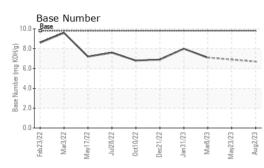
Fluid Condition

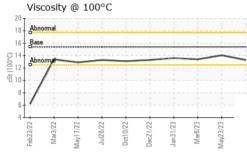
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Feb2022 Mar2	022 May2022 Jui2022 Oct2	022 Dec2022 Jan2023 Mar2023 Mar	1023 Aug2023	
SAMPLE INFOR	MATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0090495	GFL0078754	GFL0071437
Sample Date		Client Info		02 Aug 2023	23 May 2023	08 Mar 2023
Machine Age	hrs	Client Info		4871	4274	3699
Dil Age	hrs	Client Info		597	600	600
Dil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	c	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	15	21	14
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	2	<1
Fitanium	ppm	ASTM D5185m	0	<1	<1	0
Silver Aluminum	ppm	ASTM D5185m	>3	<1 <1	<1 3	0 <1
	ppm	ASTM D5185m ASTM D5185m	>20 >40	<1 0	2	<1
Lead	ppm	ASTM D5185m		3	4	2
Copper Fin	ppm		>330	ہ <1	1	<1
/anadium	ppm ppm	ASTM D5185m	>10	<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	17	1
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	60	62	66	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	981	898	949
Calcium	ppm	ASTM D5185m	1070	1145	1113	1069
Phosphorus	ppm	ASTM D5185m	1150	957	906	919
Zinc	ppm	ASTM D5185m	1270	1224	1117	1220
Sulfur	ppm	ASTM D5185m	2060	2923	2523	2740
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	3
Sodium	ppm	ASTM D5185m		4	5	3
Potassium	ppm	ASTM D5185m	>20	0	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.1		8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9		20.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6		16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7		7.1



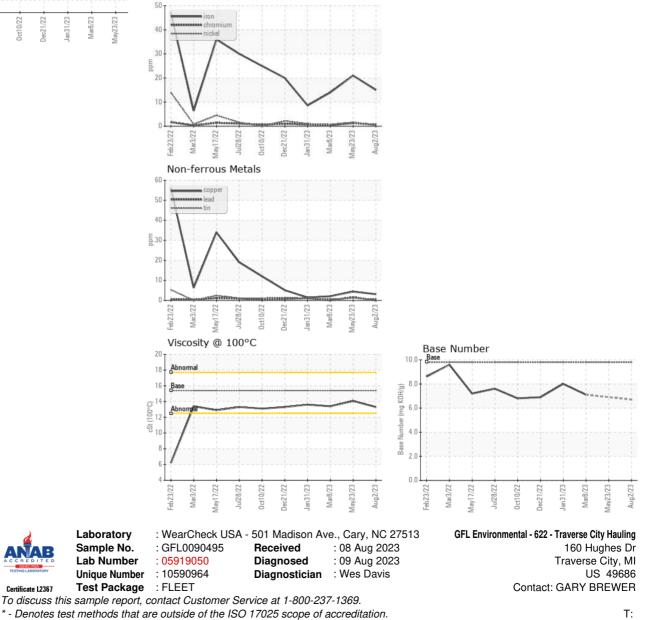
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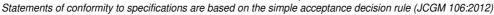




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	14.06	13.4
GRAPHS						

Ferrous Alloys





Submitted By: TECHNICIAN ACCOUNT

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