

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

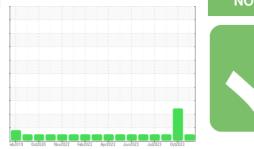
All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

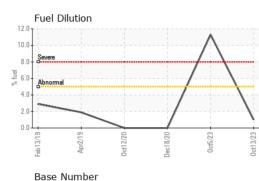
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

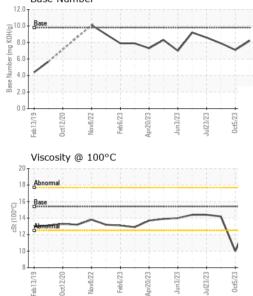


		eb2019 Oct2	020 Nov2022 Feb2023	Apr2023 Jun2023 Jul2023	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090258	GFL0090153	GFL0090208
Sample Date		Client Info		13 Oct 2023	05 Oct 2023	03 Oct 2023
Machine Age	hrs	Client Info		6231	6168	6168
Oil Age	hrs	Client Info		150	150	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	24	38
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm		>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	5	9
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	9
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	7	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	51	59
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	803	793	1004
Calcium	ppm	ASTM D5185m	1070	926	877	1049
Phosphorus	ppm	ASTM D5185m	1150	922	885	1016
Zinc	ppm	ASTM D5185m	1270	1052	1058	1346
Sulfur	ppm	ASTM D5185m	2060	2717	2829	3120
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	10
Sodium	ppm	ASTM D5185m		4	36	7
Potassium	ppm	ASTM D5185m	>20	3	7	0
Fuel	%	ASTM D3524	>5	1.0	• 11.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.8	1.3
Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.6	21.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	15.0	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.1	7.9

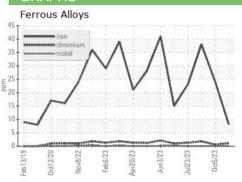


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	▲ 10.00	14.2
GRAPHS						



Non-ferrous Metals

lead

90

80

70 60

