

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 369M

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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0105712	GFL0073918	GFL0042327	
Sample Date		Client Info		18 Dec 2023	13 Mar 2023	01 Feb 2022	
Machine Age	hrs	Client Info		12905	12065	10365	
Oil Age	hrs	Client Info		12065	10365	9766	
Oil Changed		Client Info		Not Changd	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	
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	4	95	21	
Chromium	ppm	ASTM D5185m	>20	<1	3	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	7	3	
Lead	ppm	ASTM D5185m	>40	0	1	<1	
Copper	ppm	ASTM D5185m	>330	12	12	<1	
Tin	ppm	ASTM D5185m	>15	0	1	0	
Antimony	ppm	ASTM D5185m				0	
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	18	12	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	52	58	
Manganese	ppm	ASTM D5185m	0	0	4	<1	
Magnesium	ppm	ASTM D5185m	1010	881	711	956	
Calcium	ppm	ASTM D5185m	1070	984	1567	1137	
Phosphorus	ppm	ASTM D5185m	1150	882	923	1013	
Zinc	ppm	ASTM D5185m	1270	1116	1242	1204	
Sulfur	ppm	ASTM D5185m	2060	2873	2712	2386	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	9	24	5	
Sodium	ppm	ASTM D5185m		0	46	4	
Potassium	ppm	ASTM D5185m	>20	1	2	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	1.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	4.5	12.8	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	26.6	21.4	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	25.1	17.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	7.6	9.4	
					Submitted By: Frank Wolak		

Submitted By: Frank Wolak

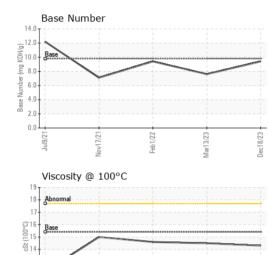


13 - Ab

12

Jul9/21

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	14.3	14.5	14.6
GRAPHS						

