

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

429058-402463

Diesel Engine

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

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.

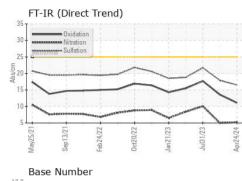
Fluid Condition

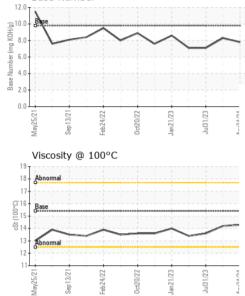
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114632	GFL0092559	GFL0081527
Sample Date		Client Info		24 Apr 2024	06 Dec 2023	31 Jul 2023
Machine Age	hrs	Client Info		11377	10409	9627
Oil Age	hrs	Client Info		600	600	600
Oil Changed		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
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	>110	0	4	16
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>45	0	0	5
Copper	ppm	ASTM D5185m	>85	0	<1	3
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	43	6	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	16	58	65
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	243	926	958
Calcium	ppm	ASTM D5185m	1070	1953	1085	1199
Phosphorus	ppm	ASTM D5185m	1150	957	1060	1029
Zinc	ppm	ASTM D5185m	1270	1104	1260	1280
Sulfur	ppm	ASTM D5185m	2060	3776	3086	3367
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>30	5	4	5
Sodium	ppm	ASTM D5185m		0	5	6
Potassium	10 10 100	ASTM D5185m	× 20		0	4
	ppm	ASTIM D3103III	>20	2	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	method *ASTM D7844	limit/base	current 0.1	history1 0.2	history2 0.6
Soot % Nitration	% Abs/cm	method *ASTM D7844 *ASTM D7624	limit/base >3 >20	current 0.1 5.2	history1 0.2 5.0	history2 0.6 10.1
Soot %	%	method *ASTM D7844	limit/base	current 0.1	history1 0.2	history2 0.6
Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20	current 0.1 5.2	history1 0.2 5.0	history2 0.6 10.1
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	current 0.1 5.2 16.5	history1 0.2 5.0 17.9	history2 0.6 10.1 21.7

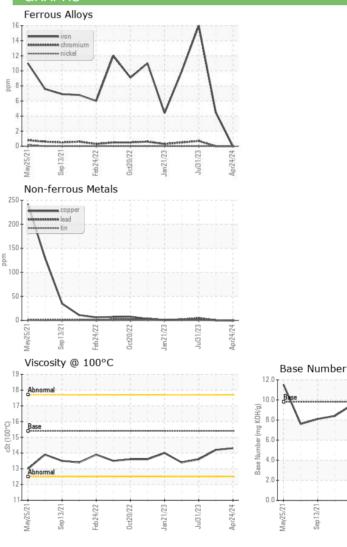


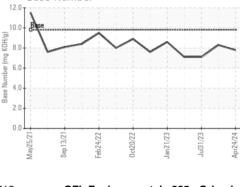
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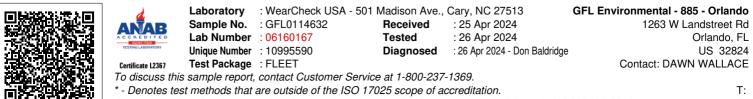




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.3	14.2	13.6
GRAPHS						







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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