

OIL ANALYSIS REPORT

Sample Rating Trend



Area (BB27195) Machine Id 528008-1107

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAI

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

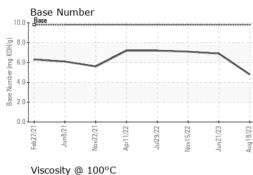
Fluid Condition

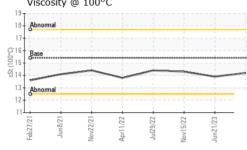
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Feb2021	Jun2021 Nov2021 Apr202	2 Jul2022 Nov2022 Jun2023	Aug2023	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088264	GFL0077514	GFL0037102
Sample Date		Client Info		18 Aug 2023	21 Jun 2023	15 Nov 2022
Machine Age	hrs	Client Info		14071	13660	12333
Dil Age	hrs	Client Info		798	387	585
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	74	31	49
Chromium	ppm	ASTM D5185m	>20	3	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	5
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	19	9	6
Lead	ppm	ASTM D5185m	>40	7	2	6
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m		<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	6	59
Barium	ppm	ASTM D5185m	0	0	4	2
Molybdenum	ppm	ASTM D5185m	60	67	58	92
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	965	846	532
Calcium	ppm	ASTM D5185m	1070	1209	1030	1720
Phosphorus	ppm	ASTM D5185m	1150	1074	898	746
Zinc	ppm	ASTM D5185m	1270	1281	1123	938
Sulfur	ppm	ASTM D5185m	2060	2824	3073	3293
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	6
Sodium	ppm	ASTM D5185m		4	6	4
Potassium	ppm	ASTM D5185m	>20	46	15	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	0.8	0.9
Nitration	Abs/cm	*ASTM D7624		12.6	10.9	13.1
Sulfation	Abs/.1mm	*ASTM D7415		27.0	23.1	27.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	19.8	21.8
			-	-		-

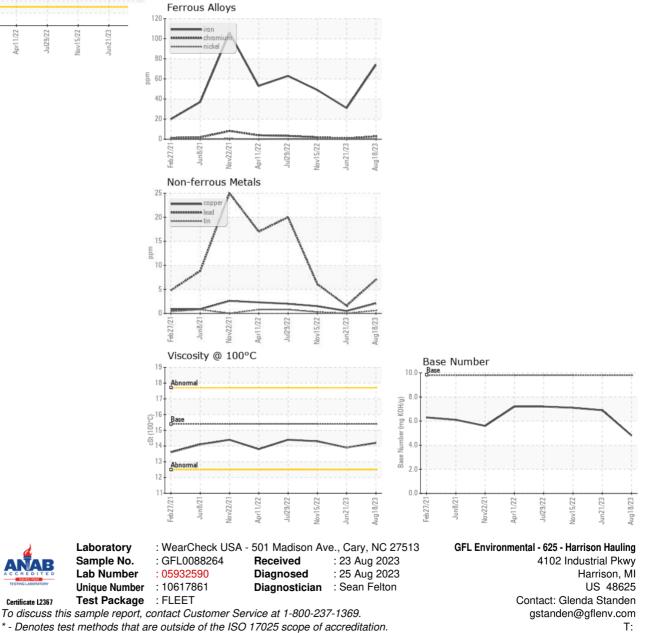


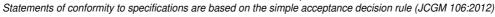
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.2	13.9	14.3
GRAPHS						





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