

OIL ANALYSIS REPORT

Sample Rating Trend



Area (BD17484)

910094 Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0116282	GFL0094881	GFL0088293
itor.	Sample Date		Client Info		18 Apr 2024	22 Jan 2024	06 Oct 2023
	Machine Age	hrs	Client Info		4821	4316	3748
	Oil Age	hrs	Client Info		53	574	581
	Oil Changed		Client Info		Not Changd	Changed	Changed
the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATI	ON	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	11	14	14
	Chromium	ppm	ASTM D5185m	>20	<1	1	0
	Nickel	ppm	ASTM D5185m	>5	<1	1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	3	1
	Lead	ppm	ASTM D5185m	>40	1	1	<1
	Copper	ppm	ASTM D5185m		4	4	3
	Tin		ASTM D5185m		2	4	0
N N	Vanadium	ppm	ASTM D5185m	>10	2 <1	0	0
	Cadmium	ppm ppm	ASTM D5185m		<1 <1	<1	0
	ADDITIVES	ppin	method	limit/base	current	history1	history2
	Boron	nom	ASTM D5185m	0	3	2	2
		ppm			0	2	0
	Barium	ppm	ASTM D5185m		-		
	Molybdenum	ppm	ASTM D5185m	60	62	59	62
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	886	912	925
	Calcium	ppm		1070	1067	1043	1045
	Phosphorus	ppm	ASTM D5185m	1150	1015	930	881
Z	Zinc	ppm	ASTM D5185m	1270	1181	1168	1167
	Sulfur	ppm	ASTM D5185m	2060	2909	2806	2411
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	8	7
	Sodium	ppm	ASTM D5185m		6	13	13
			ASTM D5185m	>20	5	4	2
	Potassium	ppm	AGTIVI DOTOSIII				
	Potassium INFRA-RED	ppm	method	limit/base	current	history1	history2
		ppm %		limit/base	current 0.5	history1 0.6	history2 0.5
	INFRA-RED		method				
	INFRA-RED Soot %	%	method *ASTM D7844	>4 >20	0.5	0.6	0.5
	INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	>4 >20	0.5 7.7	0.6 8.3	0.5 7.7
	INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm OATION	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30	0.5 7.7 19.6	0.6 8.3 19.8	0.5 7.7 19.0

DIAGNOSIS Recommendation

Resample at the next service interval to

Wear

All component wear rates are normal.

Contamination

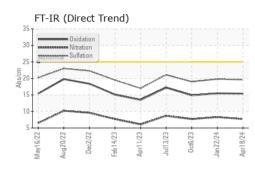
There is no indication of any contaminat oil.

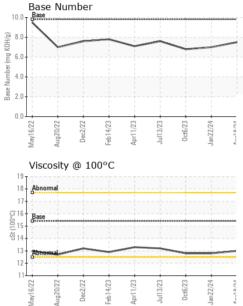
Fluid Condition

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

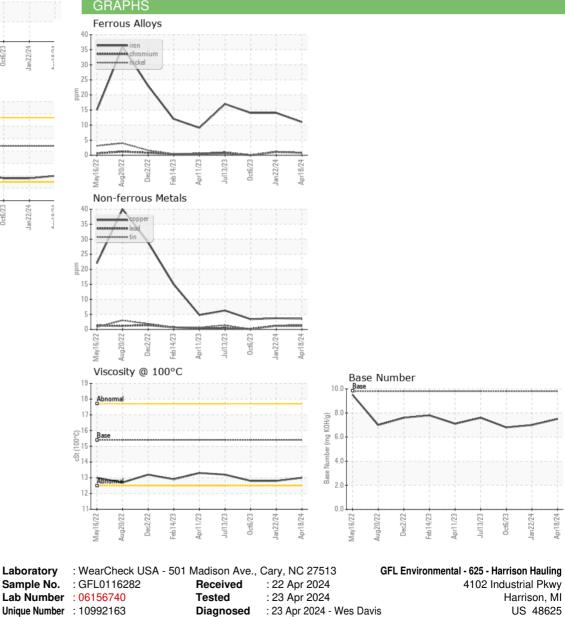


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.0	12.8	12.8





To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : FLEET

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

Certificate 12367

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