

OIL ANALYSIS REPORT

Sample Rating Trend



729045-361500 Component **Diesel Engine**

Machine Id

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

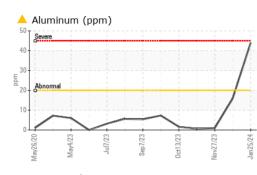
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0104906	GFL0088229	GFL0088108
Dil and filter change at the time of sampling has	Sample Date		Client Info		25 Jan 2024	14 Dec 2023	27 Nov 2023
been noted. No corrective action is recommended	Machine Age	hrs	Client Info		28494	28494	28374
at this time. Resample at the next service interval to	Oil Age	hrs	Client Info		28210	0	28210
nonitor.	Oil Changed		Client Info		Changed	N/A	N/A
Wear	Sample Status				ABNORMAL	NORMAL	NORMAL
he aluminum level is abnormal. All other component wear rates are normal.	CONTAMINAT	ION	method	limit/base	current	history1	history2
ontamination	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
here is no indication of any contamination in the	Water		WC Method	>0.2	NEG	NEG	NEG
il.	Glycol		WC Method		NEG	NEG	NEG
luid Condition	WEAR METAL	c	method	limit/base	current	history1	history2
he BN result indicates that there is suitable							
kalinity remaining in the oil. The condition of the lis suitable for further service.	Iron	ppm	ASTM D5185m		16	15	5
	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m		3	2	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<u> </u>	16	1
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	2	1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	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	<1	0	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	53	56	56
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	863	877	972
	Calcium	ppm	ASTM D5185m	1070	934	991	1043
	Phosphorus	ppm	ASTM D5185m	1150	932	847	1052
	Zinc	ppm	ASTM D5185m	1270	1173	1155	1261
	Sulfur	ppm	ASTM D5185m	2060	2731	2820	3076
	CONTAMINAN	TS	method	limit/base	current	history1	history2
			ASTM D5185m	>25	11	6	4
	Silicon	ppm					
	Silicon Sodium	ppm ppm	ASTM D5185m		4	1	2
			ASTM D5185m ASTM D5185m	>20		1	
	Sodium	ppm		>20 limit/base	4 <1	1	2 <1
	Sodium Potassium	ppm	ASTM D5185m	limit/base	4 <1	1 2	2 <1
	Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m method	limit/base	4 <1 current	1 2 history1	2 <1 history2
	Sodium Potassium INFRA-RED Soot %	ppm ppm % Abs/cm	ASTM D5185m method *ASTM D7844	limit/base >4 >20	4 <1 current 0.6	1 2 history1 0.5	2 <1 history2 0.4
	Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20	4 <1 0.6 10.0 19.2	1 2 history1 0.5 8.0	2 <1 0.4 6.9 18.4
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm DATION	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30 limit/base	4 <1 0.6 10.0 19.2	1 2 history1 0.5 8.0 18.9	2 <1 history2 0.4 6.9

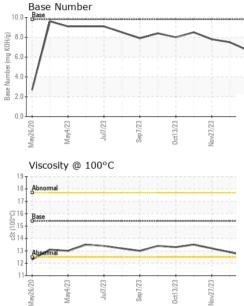
Fluid

Report Id: GFL820 [WUSCAR] 06074394 (Generated: 01/31/2024 16:26:35) Rev: 1

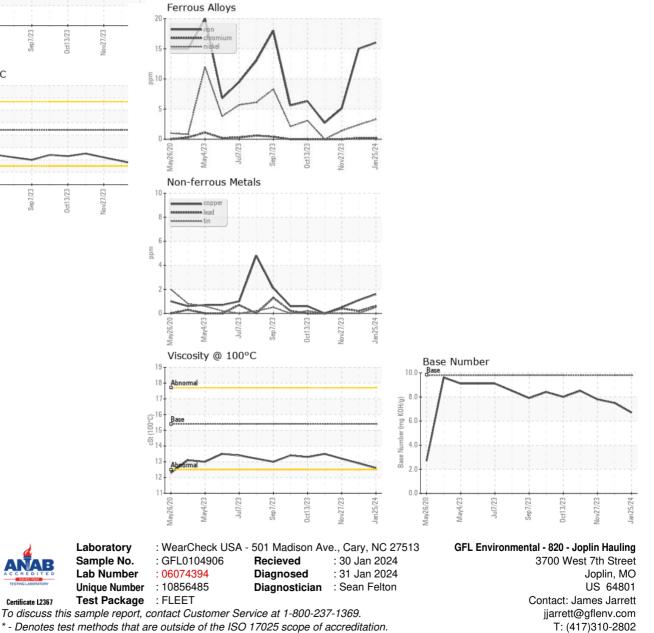


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.6	12.9	13.2
GRAPHS						



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

Certificate L2367

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