

OIL ANALYSIS REPORT

Sample Rating Trend



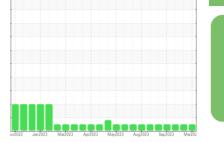


Machine Id 413005

Fluid

Component **Diesel Engine**

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

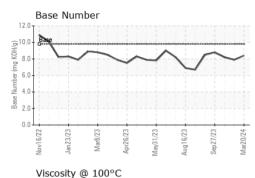


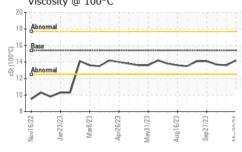


			ovzuzz Jan	2023 Mar2023 Apr20	123 May2023 Aug2023 Sep2(123 Mar202	
DIAGNOSIS	SAMPLE INFOR	MATION		limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0110575	GFL0100260	GFL0100178
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Mar 2024	27 Dec 2023	01 Dec 2023
Vear	Machine Age	hrs	Client Info		3059	47839	41588
Il component wear rates are normal.	Oil Age	hrs	Client Info		200	600	600
ontamination	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il. Iuid Condition	CONTAMINAT	ION	method	limit/base	current	history1	history2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Fuel		WC Method	>3.0	<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	>120	6	8	7
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	2	6	5
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	2	3	2
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	2	3	3
	Tin	ppm	ASTM D5185m	>15	1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	2	0
	Barium	ppm	ASTM D5185m	0	1	0	5
	Molybdenum	ppm	ASTM D5185m	60	60	58	60
	Manganese	ppm	ASTM D5185m	0	1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	946	945	873
	Calcium	ppm	ASTM D5185m	1070	1056	980	991
	Phosphorus	ppm	ASTM D5185m	1150	973	1045	994
	Zinc	ppm	ASTM D5185m	1270	1184	1272	1113
	Sulfur	ppm	ASTM D5185m	2060	3032	2998	2869
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	7	6
	Sodium	ppm	ASTM D5185m		<1	3	0
	Potassium	ppm	ASTM D5185m	>20	5	7	8
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624		6.2	7.5	6.5
	Sulfation	Abs/.1mm	*ASTM D7415		18.2	19.1	18.5
	FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.3	14.5
	Base Number (BN)		ASTM D7414		8.4	7.9	8.2
	Dase Multiber (DN)	ing KON/g	A01101D2030	3.0	0.4	1.5	0.2

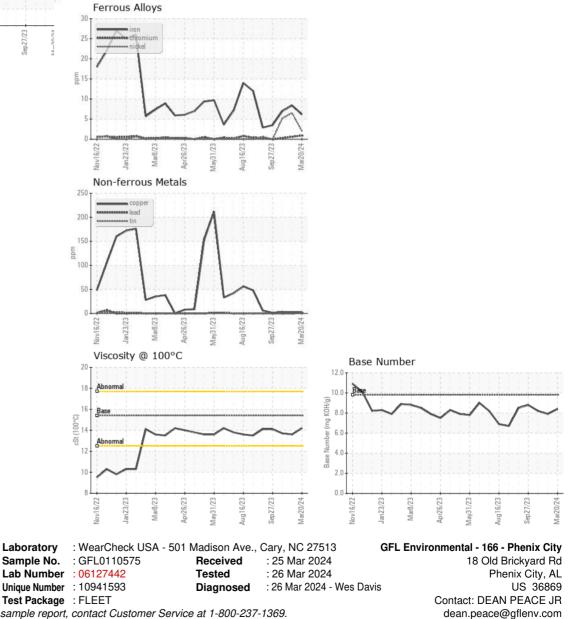


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.6	13.7
GRAPHS						





Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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