

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 923036-205290

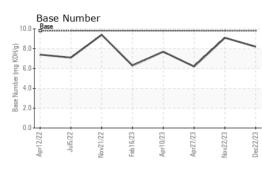
Component **Diesel Engine** Fluid

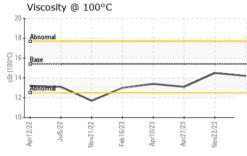
PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0093566	GFL0093598	GFL0077282
Resample at the next service interval to monitor.	Sample Date		Client Info		22 Dec 2023	22 Nov 2023	27 Apr 2023
Wear	Machine Age	hrs	Client Info		4557	4458	3917
All component wear rates are normal.	Oil Age	hrs	Client Info		99	27	559
Contamination	Oil Changed		Client Info		Not Changd	Changed	Not Changd
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Water		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Glycol		WC Method	20.2	NEG	NEG	NEG
	-	0					
	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	3	2	13
	Chromium	ppm	ASTM D5185m	>20	<1	0	1
	Nickel	ppm	ASTM D5185m	>5	2	<1	8
	Titanium	ppm	ASTM D5185m	>2	57	1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	1	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	5	6	27
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	83	1	4
	Barium	ppm	ASTM D5185m	0	<1	0	0
	Molybdenum	ppm	ASTM D5185m		21	58	61
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		601	1013	953
	Calcium	ppm	ASTM D5185m		1422	1055	1096
	Phosphorus	ppm	ASTM D5185m		1003	989	980
	Zinc	ppm	ASTM D5185m		1185	1331	1243
	Sulfur	ppm	ASTM D5185m		3317	3274	3332
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	3	3
	Sodium	ppm	ASTM D5185m		6	2	4
	Potassium	ppm	ASTM D5185m	>20	2	1	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624		6.8	4.8	7.7
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	18.0	18.8
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	Oxidation	Abe/ 1mm	*ASTM D7414	>25	14.8	13.7	15.9
	UNIUALIUIT	nuo/.111111	AUTW D1414	220	14.0	10.7	10.0
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	9.1	6.2

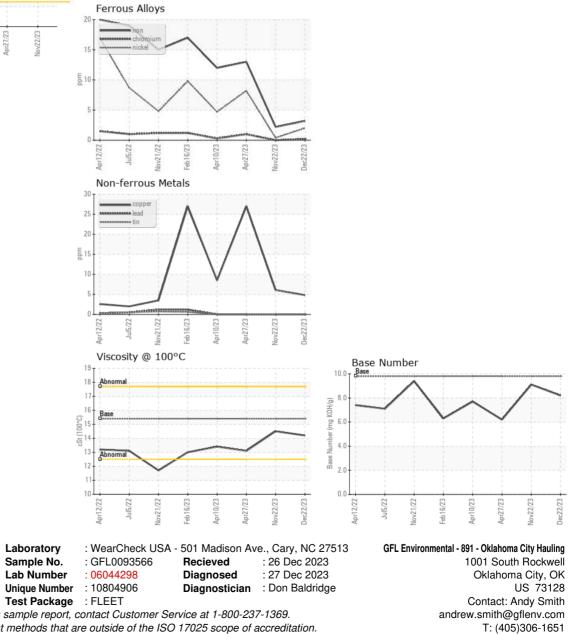


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.5	13.1
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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