

OIL ANALYSIS REPORT

Sample Rating Trend





Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

420053-485 Component

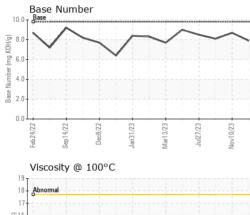
Diesel Engine

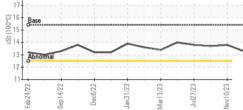
PETRO CANADA DURON SHP 15W40 (--- GAL

ON SHP 15W40 (GAL)								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0100239	GFL0091245	GFL0091229		
Sample Date		Client Info		14 Dec 2023	10 Nov 2023	10 Oct 2023		
Machine Age	mls	Client Info		111910	6127	0		
Oil Age	mls	Client Info		0	600	600		
Oil Changed		Client Info		Not Changd	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>6.0	<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	>100	8	7	26		
Chromium	ppm	ASTM D5185m	>20	0	0	<1		
Nickel	ppm	ASTM D5185m	>2	1	1	4		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>25	3	1	4		
Lead	ppm	ASTM D5185m	>40	0	0	<1		
Copper	ppm	ASTM D5185m	>330	4	3	15		
Tin	ppm	ASTM D5185m	>15	<1	0	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	3	<1	12		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	57	58	64		
Manganese	ppm	ASTM D5185m	0	<1	0	<1		
Magnesium	ppm	ASTM D5185m	1010	899	904	938		
Calcium	ppm	ASTM D5185m	1070	1013	1041	1071		
Phosphorus	ppm	ASTM D5185m	1150	932	1001	1087		
Zinc	ppm	ASTM D5185m	1270	1190	1171	1246		
Sulfur	ppm	ASTM D5185m	2060	2841	3422	3222		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	4	7		
Sodium	ppm	ASTM D5185m		3	<1	3		
Potassium	ppm	ASTM D5185m	>20	4	4	6		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	6.7	5.5	6.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.2	18.2		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.0	14.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.7	8.1		

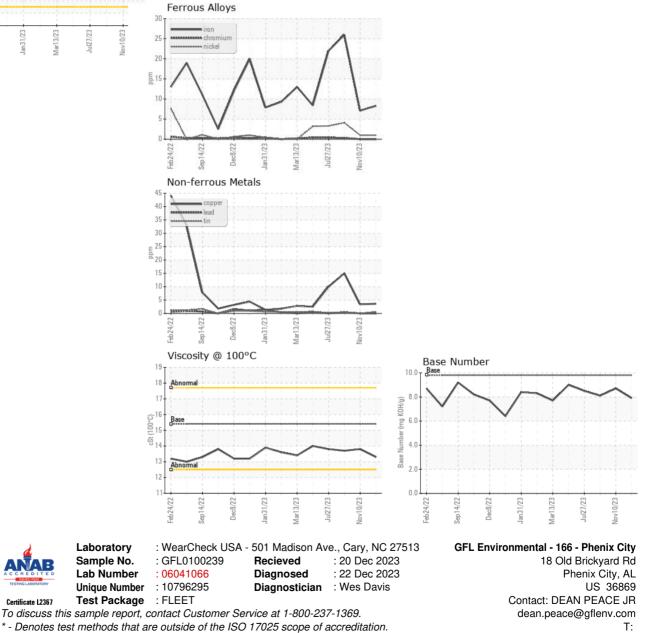


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.3	13.8	13.7
GRAPHS						



* - 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)

Certificate L2367

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