

OIL ANALYSIS REPORT

Area (H917015) Machine Id 913050

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

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

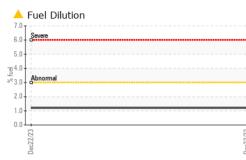
AL)			Jul2023	Dec2023			
SAMPLE INFOR		method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0073347	GFL0073261		
Sample Date		Client Info		22 Dec 2023	24 Jul 2023		
Machine Age	hrs	Client Info		600	600		
Dil Age	hrs	Client Info		600	600		
Dil Changed		Client Info		Changed	Changed		
Sample Status				MARGINAL	NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2	
Vater		WC Method	>0.2	NEG	NEG		
Glycol		WC Method		NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>90	20	52		
Chromium	ppm	ASTM D5185m	>20	2	2		
Nickel	ppm	ASTM D5185m	>2	0	0		
Titanium	ppm	ASTM D5185m	>2	0	0		
Silver	ppm	ASTM D5185m	>2	0	0		
Aluminum	ppm	ASTM D5185m	>20	13	9		
ead	ppm	ASTM D5185m	>40	0	0		
Copper	ppm	ASTM D5185m	>330	<1	4		
Γin	ppm	ASTM D5185m	>15	2	0		
/anadium	ppm	ASTM D5185m		0	0		
Cadmium	ppm	ASTM D5185m		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	12	6		
Barium	ppm	ASTM D5185m	0	0	3		
Nolybdenum	ppm	ASTM D5185m	60	79	63		
Manganese	ppm	ASTM D5185m	0	<1	2		
Magnesium	ppm	ASTM D5185m	1010	844	1029		
Calcium	ppm	ASTM D5185m	1070	1006	1159		
Phosphorus	ppm	ASTM D5185m	1150	936	1074		
Zinc	ppm	ASTM D5185m	1270	1196	1330		
Sulfur	ppm	ASTM D5185m	2060	2832	3903		
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	7		
Sodium	ppm	ASTM D5185m		3	2		
Potassium	ppm	ASTM D5185m	>20	32	19		
Fuel	%	ASTM D3524	>3.0	<u> </u>	<1.0		
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.6	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.1		
FLUID DEGRA		method	limit/base	current	history1	history2	
I LOID DEGINA	DATION		initia babe	Current	motory		
Dxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.8		

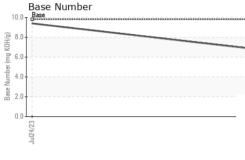
Sample Rating Trend

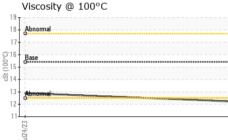
FUEL

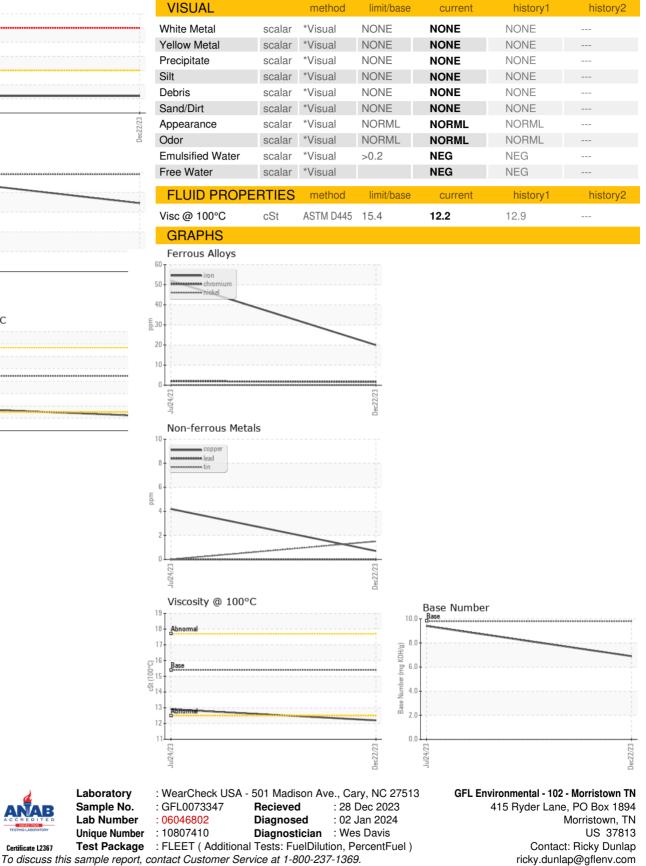


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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

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