

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 12007

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

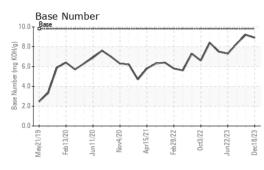
Fluid Condition

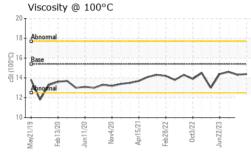
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number Sample Date		Client Info Client Info		GFL0098519 18 Dec 2023	GFL0087758 28 Sep 2023	GFL0087745 14 Sep 2023		
Machine Age	hrs	Client Info		131669	16700 47	16653		
Dil Age	hrs	Client Info Client Info		609 Changed		575 Changed		
Dil Changed Sample Status		Client Inio		Changed NORMAL	Changed NORMAL	Changed NORMAL		
		method	limit/base	-	history1	-		
		WC Method	>5	current	<1.0	history2 <1.0		
Vater		WC Method		<1.0 NEG	<1.0 NEG	<1.0 NEG		
Glycol		WC Method	>0.2	NEG	NEG	NEG		
-	0			-	-			
WEAR METAL		method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>100	69	4	9		
Chromium	ppm	ASTM D5185m		3	<1	1		
	ppm	ASTM D5185m	>50	0	<1	<1		
Fitanium Silver	ppm	ASTM D5185m ASTM D5185m	>2 >2	0	0	<1 <1		
Aluminum	ppm	ASTM D5185m		0 54	<1	<1		
_ead	ppm ppm	ASTM D5185m	>30 >40	0 0	0	<1		
Copper	ppm	ASTM D5185m		5	<1	<1		
-in	ppm	ASTM D5185m	>15	0	0	1		
/anadium	ppm	ASTM D5185m	210	0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	80	0	2		
Barium	ppm	ASTM D5185m	0	0	0	44		
Nolybdenum	ppm	ASTM D5185m	60	118	60	55		
Manganese	ppm	ASTM D5185m	0	2	0	1		
Magnesium	ppm	ASTM D5185m	1010	683	950	876		
Calcium	ppm	ASTM D5185m	1070	1644	1041	1005		
Phosphorus	ppm	ASTM D5185m	1150	694	1056	952		
Zinc	ppm	ASTM D5185m	1270	887	1266	1199		
Sulfur	ppm	ASTM D5185m	2060	2527	3321	3266		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm		>25	12	3	5		
Sodium	ppm	ASTM D5185m		2	2	5		
Potassium	ppm	ASTM D5185m	>20	141	1	4		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>5	0.2	0.1	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.4	7.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	17.6	18.7		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.6	14.8		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	9.2	8.3		

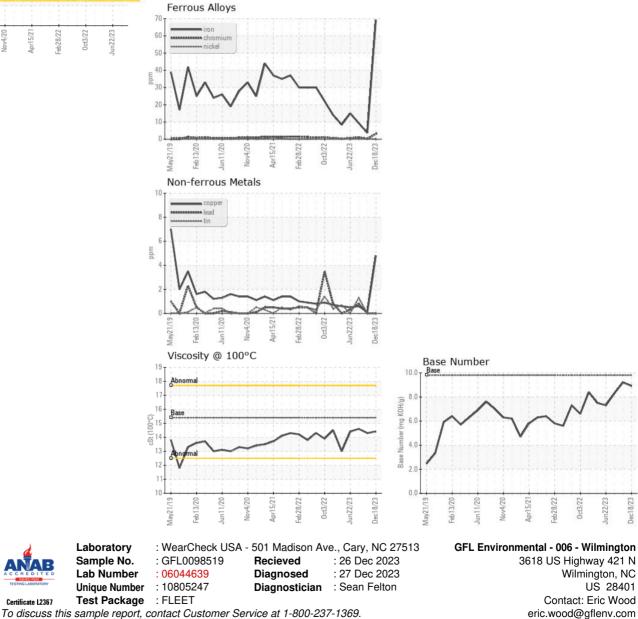


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.4	14.3	14.6
GRAPHS						



Certificate L2367

Laboratory

* - 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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