

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 10978

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 GAL)

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.

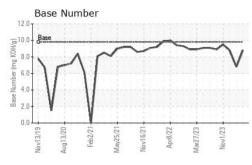
Fluid Condition

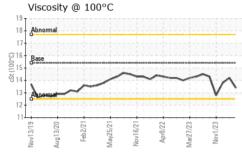
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0112956	GFL0098133	GFL0088504			
Sample Date		Client Info		04 Mar 2024	09 Jan 2024	04 Jan 2024			
Machine Age	hrs	Client Info		1432	1432	1432			
Oil Age	hrs	Client Info		251	1432	300			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	ATTENTION			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
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	>75	10	2	8			
Chromium	ppm	ASTM D5185m	>5	0	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>15	3	2	2			
Lead	ppm	ASTM D5185m	>25	0	0	0			
Copper	ppm	ASTM D5185m	>100	<1	0	2			
Tin	ppm	ASTM D5185m	>4	0	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	0	0	3			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	54	60	58			
Manganese	ppm	ASTM D5185m		<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	1072	988	910			
Calcium	ppm	ASTM D5185m	1070	1152	1082	1028			
Phosphorus	ppm	ASTM D5185m	1150	1136	1047	1003 1223			
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270	1320 3454	1245 3485	2921			
CONTAMINAN		method	limit/base		history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	2	6 35			
Sodium	ppm	ASTM D5185m	. 20	6					
Potassium	ppm	ASTM D5185m	>20	8	11	57			
INFRA-RED	24	method	limit/base		history1	history2			
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.5			
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	6.7 18.4	7.7 22.7	7.0 19.2			
FLUID DEGRA									
			limit/base		history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	16.6	14.3			
Base Number (BN)	mg KOH/g	ASTM D2896	9.0	8.8	6.8	8.8			

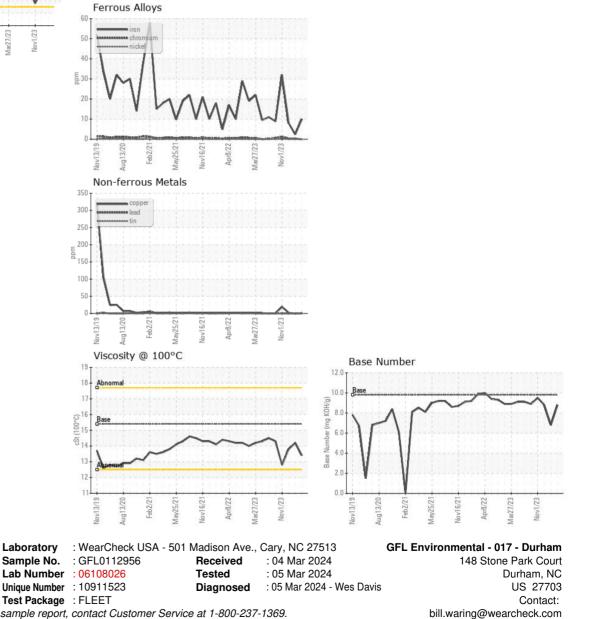


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	14.2	13.8
GRAPHS						



 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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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)

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