

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- L

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

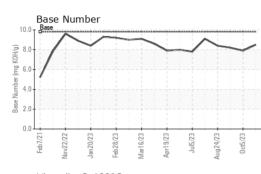
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

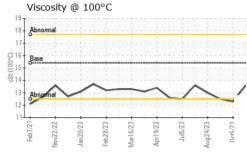
.TR)								
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0094803	GFL0094821	GFL0094811		
Sample Date		Client Info		25 Oct 2023	05 Oct 2023	14 Sep 2023		
Machine Age	hrs	Client Info		20041	19930	19776		
Oil Age	hrs	Client Info		561	450	296		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	2	8	7		
Chromium	ppm	ASTM D5185m		<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	1	<1		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m		<1	6	5		
_ead	ppm	ASTM D5185m	>40	0	<1	0		
Copper Tin	ppm	ASTM D5185m		<1 <1	1 <1	2 <1		
Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1	<1	0		
Cadmium	ppm ppm	ASTM D5185m		0	<1	0		
ADDITIVES	ppm	method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	5	0	2		
Barium	ppm	ASTM D5185m	0	19	10	0		
Volybdenum	ppm	ASTM D5185m	60	60	56	60		
Vanganese	ppm	ASTM D5185m	0	<1	<1	<1		
Vagnesium	ppm	ASTM D5185m	1010	809	829	935		
Calcium	ppm	ASTM D5185m	1070	883	926	1028		
Phosphorus	ppm	ASTM D5185m	1150	892	896	1024		
Zinc	ppm	ASTM D5185m	1270	1041	1077	1220		
Sulfur	ppm	ASTM D5185m	2060	3761	2865	3653		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	3	2	4		
Sodium	ppm	ASTM D5185m		2	0	4		
Potassium	ppm	ASTM D5185m	>20	1	2	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	4.8	8.2	7.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	18.3	17.5		
FLUID DEGRA	DATION		limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	14.7	13.5		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	7.9	8.2		



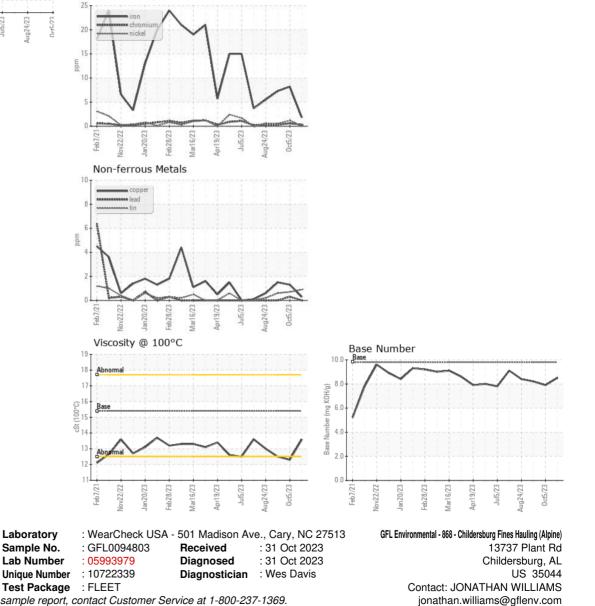
OIL ANALYSIS REPORT

Ferrous Alloys





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	13.6	12.3	12.5
GRAPHS						



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)

Certificate L2367

Т:

F: