

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (5 GAL)

Recommendation

Resample at the next service interval to monitor.

Machine Id

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.

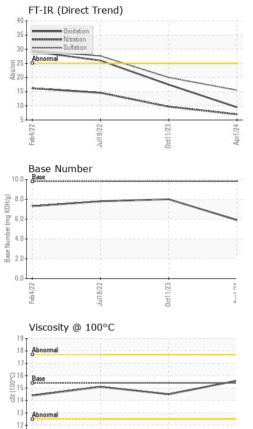
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0115143	GFL0093125	GFL0055185		
Sample Date		Client Info		01 Apr 2024	11 Oct 2023	18 Jul 2022		
Machine Age	hrs	Client Info		20320	20170	4982		
Oil Age	hrs	Client Info		150	4982	3761		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	87	35	74		
Chromium	ppm	ASTM D5185m	>20	4	2	3		
Nickel	ppm	ASTM D5185m	>2	2	<1	<1		
Titanium	ppm	ASTM D5185m	>2	1	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	0	<1		
Aluminum	ppm	ASTM D5185m	>20	11	5	17		
Lead	ppm	ASTM D5185m	>40	<1	0	<1		
Copper	ppm	ASTM D5185m	>330	4	2	6		
Tin	ppm	ASTM D5185m	>15	1	<1	1		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	<1	<1		
Cadmium	ppm	ASTM D5185m		0	0	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	3	<1	8		
Barium	ppm	ASTM D5185m	0	0	12	0		
Molybdenum	ppm	ASTM D5185m	60	62	62	68		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	937	990	1001		
Calcium	ppm	ASTM D5185m	1070	1136	1099	1214		
Phosphorus	ppm	ASTM D5185m	1150	1033	1043	1105		
Zinc	ppm	ASTM D5185m	1270	1247	1295	1369		
Sulfur	ppm	ASTM D5185m	2060	2956	2948	3524		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	17	9	8		
Sodium	ppm	ASTM D5185m		8	5	8		
Potassium	ppm	ASTM D5185m	>20	11	6	25		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0	0.6	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.7	14.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	20.0	27.6		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.5	17.5	26.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.9	8.0	7.8		
:50:34) Bev: 1					Submitted By: John Nahal			



Feb4/22

Jul18/22

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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	15.6	14.5	15.1
GRAPHS						
Ferrous Alloys						

