

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area Off-Road E453 Component **Diesel Engine** Fluid

PETRO CANADA DURO

DIAGNOSIS

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

Recommendation

Contamination

Fluid Condition

Wear

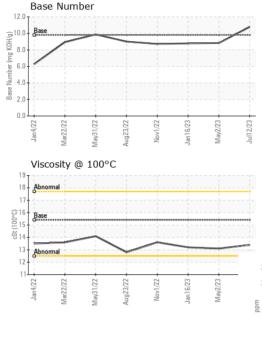
oil.

DN SHP 15W40 (GAL)									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number Sample Date Machine Age Oil Age	hrs hrs	Client Info Client Info Client Info Client Info		PCA0090798 12 Jul 2023 9879 9879	PCA0090822 02 May 2023 8676 8676	PCA0071974 16 Jan 2023 8676 8676			
Oil Changed Sample Status		Client Info		N/A NORMAL	N/A NORMAL	N/A NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel Glycol		WC Method WC Method	>5	<1.0 NEG	<1.0 NEG	<1.0 NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
lron Chromium	ppm ppm	ASTM D5185m ASTM D5185m	>100 >20	97 1	26 <1	23 <1			
Nickel Titanium	ppm ppm	ASTM D5185m ASTM D5185m	>2 >2	<1 0	<1 0	<1 0			
Silver	ppm ppm	ASTM D5185m ASTM D5185m	>2 >25	0	0	0			
Lead Copper	ppm ppm	ASTM D5185m ASTM D5185m	>40	0	0	<1			
Tin Vanadium	ppm ppm	ASTM D5185m ASTM D5185m	>15	0 <1	0	<1 0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	4 2	5 0	6 0			
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	60 0	62 <1	60 <1	59 <1			
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	879 1135	916 1017	923 1096			
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150 1270	1001	965 1246	990 1241			
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	2060	3264	3029	3540			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	5 8	5 11	5 18			
Potassium	ppm	ASTM D5185m	>20	2	2	2			

INFRA-RED		method				history2
Soot %	%	*ASTM D7844	>3	0.3	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.1	20.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	0.0	17.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	21.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.79	8.83	8.79



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Certificate L2367

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