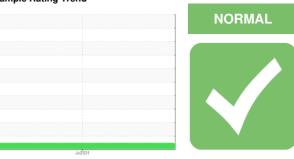


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

[] PCA0119329

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

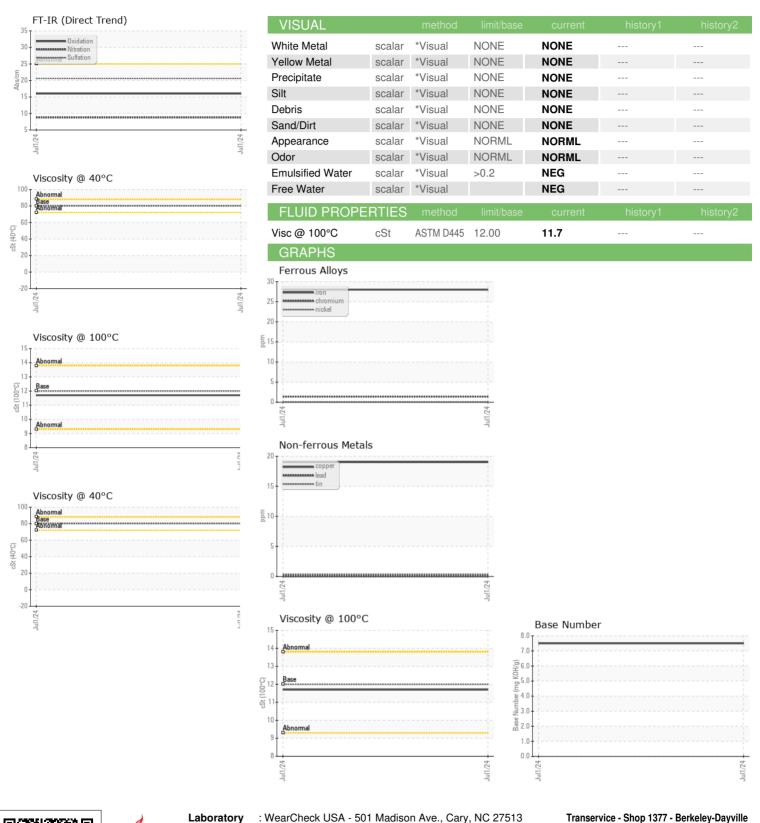
Fluid Condition

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

Sample Number Sample Date Machine Age Oil Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron Chromium Ppm AST Chromium Ppm AST Nickel Titanium Silver Ppm AST Aluminum Lead Ppm AST Copper Tin Ppm AST Vanadium Ppm AST Cadmium Ppm AST Wandium Ppm AST Wandium Ppm AST Cadmium Ppm AST AST Cadmium Ppm AST Cadmium Ppm AST Cadmium Ppm AST SI Vanadium Ppm AST Cadmium Ppm AST Cadmium Ppm AST SI Cadmium Ppm AST Cadmium Ppm AST Calcium Ppm AST Solfur Phosphorus Ppm AST Sulfur Sulfur Ppm AST CONTAMINANTS INFRA-RED I	L	Jul 2024				
Sample Date Machine Age Oil Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron Chromium Ppm AST Chromium Ppm AST Titanium Silver Aluminum Lead Ppm AST Copper Tin Ppm AST Vanadium Cadmium Ppm AST ADDITIVES Boron Barium Manganese Magnesium Ppm AST Manganese Phosphorus Phosphorus Phosphorus Phosphorus Photassium Ppm AST CONTAMINANTS Silicon Silicon Ppm AST CONTAMINANTS Iron Silicon Ppm AST CONTAMINANTS Iron Sodium Ppm AST CONTAMINANTS INFRA-RED Inf	nethod	limit/base	current	history1	history2	
Machine Age Oil Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron Chromium Ppm AST Oil Chanium Ppm AST Titanium Silver Aluminum Lead Ppm AST Copper Tin Vanadium Cadmium Ppm AST ADDITIVES Boron Barium Barium Ppm AST Molybdenum Ppm AST Manganese Ppm AST Manganese Ppm AST Sulfur Ppm AST Molybdenum Ppm AST Silicon Sulfur Soldium Ppm AST CONTAMINANTS INFRA-RED INFRA-RED INFRA-RED INFRA-RED Inc	ent Info		PCA0119329			
Oil Age Oil Changed Sample Status CONTAMINATION Fuel Woter Glycol WC WEAR METALS Iron ppm AST Chromium ppm AST Chromium ppm AST Silver ppm AST Chopper ppm AST Titanium ppm AST Chopper ppm AST Titanium ppm AST Chopper ppm A	ent Info		01 Jul 2024			
Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron ppm AST Chromium ppm AST Nickel ppm AST Aluminum ppm AST Aluminum ppm AST Copper ppm AST Tin ppm AST Vanadium ppm AST Vanadium ppm AST Wanadium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Maluminum ppm AST ADDITIVES Boron ppm AST Cadmium ppm AST Calcium ppm AST Manganese ppm AST Manganese ppm AST Calcium ppm AST Calcium ppm AST Silicon ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST Sodium ppm AST NFRA-RED Soot % % *AS Nitration Abs/cm *AS	ent Info		0			
CONTAMINATION Fuel Water Glycol WC WEAR METALS Iron ppm AST Chromium ppm A	ent Info		0			
CONTAMINATION Fuel Water Glycol WEAR METALS Iron ppm AST Chromium ppm AST Chromium ppm AST Silver ppm AST Aluminum ppm AST Copper ppm AST Tin ppm AST Vanadium ppm AST Vanadium ppm AST Wanadium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Manganese ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Silicon ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS	ent Info		N/A			
Fuel Wolfer Wolfer Wolfer Glycol WEAR METALS Iron ppm AST Chromium ppm AST Nickel ppm AST Nickel ppm AST Nickel ppm AST Aluminum ppm AST Lead ppm AST Copper ppm AST Vanadium ppm AST Vanadium ppm AST Wanadium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Silicon ppm AST Silicon ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST NERA-RED MOCONTAMINANTS MOCON			NORMAL			
Water Glycol WEAR METALS Iron ppm AST Chromium ppm AST Nickel ppm AST Silver ppm AST Aluminum ppm AST Copper ppm AST Tin ppm AST Vanadium ppm AST Wanadium ppm AST Wanadium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Calcium ppm AST Silicon ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST Sodium Potassium ppm AST	nethod	limit/base	current	history1	history2	
WEAR METALS Iron ppm AST Chromium ppm AST Aluminum ppm AST Aluminum ppm AST Copper ppm AST Cadmium ppm AST Calcium ppm AST Contaminant ppm AS	Method	>5	<1.0			
WEAR METALS Iron ppm AST Chromium ppm AST Nickel ppm AST Titanium ppm AST Silver ppm AST Aluminum ppm AST Copper ppm AST Tin ppm AST Vanadium ppm AST Cadmium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Manganese ppm AST Manganese ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Contained ppm AST Silicon ppm AST Contained ppm AST Silicon ppm AST Contained ppm	Method	>0.2	NEG			
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Nickel ppm AST Fitanium ppm AST Silver ppm AST Aluminum ppm AST Aluminum ppm AST Lead ppm AST Copper ppm AST Fin ppm AST Vanadium ppm AST Vanadium ppm AST ADDITIVES m Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Contaminant ppm AST Contami	M D5185m	>100	28			
Titanium ppm AST Aluminum ppm AST Aluminum ppm AST Aluminum ppm AST Lead ppm AST Tin ppm AST Vanadium ppm AST Vanadium ppm AST ADDITIVES m Barium ppm AST Manganese ppm AST Manganese ppm AST Calcium ppm AST Contaminants C	M D5185m	>20	1			
Silver ppm AST Aluminum ppm AST Lead ppm AST Copper ppm AST Vanadium ppm AST Cadmium ppm AST Cadmium ppm AST ADDITIVES m Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Contaminants Silicon ppm AST Contaminants Silicon ppm AST Contaminants Sodium ppm AST Contaminant	M D5185m	>4	0			
Aluminum ppm AST Lead ppm AST Copper ppm AST Vanadium ppm AST Vanadium ppm AST Cadmium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Contaminants Contam	M D5185m		0			
ppm AST Copper ppm AST Copper ppm AST Copper ppm AST Conadium ppm AST Cadmium ppm AST Calcium ppm AST Contaminant ppm AST Cont	M D5185m	>3	0			
Copper ppm AST Fin ppm AST Vanadium ppm AST Vanadium ppm AST Cadmium ppm AST ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Calcium ppm AST Contamination ppm AST Con	M D5185m	>20	6			
Tin ppm AST //anadium ppm AST	M D5185m	>40	0			
Vanadium ppm AST Cadmium ppm AST ADDITIVES m Barium ppm AST Molybdenum ppm AST Magnesium ppm AST Calcium ppm AST Contaminant p	M D5185m	>330	19			
ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Manganese ppm AST Calcium ppm AST Contaminant ppm A	M D5185m	>15	<1			
ADDITIVES Boron ppm AST Barium ppm AST Molybdenum ppm AST Manganese ppm AST Magnesium ppm AST Calcium ppm AST Phosphorus ppm AST Cinc ppm AST Cinc ppm AST Contaminants	M D5185m		0			
Boron ppm AST Barium ppm AST Molybdenum ppm AST Manganese ppm AST Magnesium ppm AST Calcium ppm AST Chosphorus ppm AST Zinc ppm AST CONTAMINANTS Bilicon ppm AST CONTAMINANTS BILICONTAMINANTS BILICONTAMINATS BILICONTAMINANTS BILICONTAMINANTS BILICONTAMINANTS BILICONTAMI	M D5185m		0			
Barium ppm AST Molybdenum ppm AST Manganese ppm AST Magnesium ppm AST Calcium ppm AST Phosphorus ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST Sodium ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Silicon ppm AST CONTAMINANTS Solicon ppm A	nethod	limit/base	current	history1	history2	
Molybdenum ppm AST Manganese ppm AST Magnesium ppm AST Calcium ppm AST Phosphorus ppm AST Zinc ppm AST Sulfur ppm AST CONTAMINANTS m Sodium ppm AST Sodium ppm AST Fotassium ppm AST NFRA-RED m Soot % *AS Nitration ASS	M D5185m	2	5			
Manganese ppm AST Magnesium ppm AST Calcium ppm AST Phosphorus ppm AST Zinc ppm AST CONTAMINANTS m Sodium ppm AST Sodium ppm AST Fotassium ppm AST INFRA-RED m Soot % % *AS Nitration ASS Magnesium ppm AST	M D5185m	0	0			
Magnesium ppm AST Calcium ppm AST Phosphorus ppm AST Zinc ppm AST CONTAMINANTS m Contaminant ppm AST Contaminant ppm AST Contaminant ppm AST Contaminant ppm AST Contassium AST Contassium ppm AST Contassium AST Conta	M D5185m	50	56			
Calcium ppm AST Phosphorus ppm AST Zinc ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST Codium ppm AST Potassium ppm AST INFRA-RED m Soot % *AS Vitration Abs/cm *AS	M D5185m	0	<1			
Phosphorus ppm AST Zinc ppm AST Sulfur ppm AST CONTAMINANTS Silicon ppm AST Sodium ppm AST Potassium ppm AST INFRA-RED m Soot % *AS Slitration Abs/cm *AS	M D5185m	950	922			
Zinc ppm AST Sulfur ppm AST CONTAMINANTS m Silicon ppm AST Sodium ppm AST Potassium ppm AST INFRA-RED m Soot % *AS Vitration Abs/cm *AS	M D5185m	1050	1103			
CONTAMINANTS m CONTAMINANTS m Silicon ppm AST Godium ppm AST Potassium ppm AST INFRA-RED m Soot % *AS Vitration Abs/cm *AST	M D5185m	995	984			
CONTAMINANTS m Silicon ppm AST Godium ppm AST Potassium ppm AST INFRA-RED m Soot % % *AS Nitration Abs/cm *AS	M D5185m	1180	1226			
Silicon ppm AST Sodium ppm AST Potassium ppm AST INFRA-RED m Soot % *AS Vitration Abs/cm *AST	M D5185m	2600	2897			
Sodium ppm AST Potassium ppm AST INFRA-RED m Soot % % *AS Vitration Abs/cm *AS	nethod	limit/base	current	history1	history2	
Potassium ppm AST INFRA-RED m AST Soot % % *AS Nitration Abs/cm *AS	M D5185m	>25	5			
INFRA-RED	M D5185m		9			
Soot % % *AS Nitration Abs/cm *AS	M D5185m	>20	11			
Nitration Abs/cm *AS	nethod	limit/base	current	history1	history2	
	TM D7844	>3	8.0			
Sulfation Ahs/1mm *AS	TM D7624	>20	8.8			
Sanation 7.00.111111 7.0	TM D7415	>30	20.6			
FLUID DEGRADATION m	nethod	limit/base	current	history1	history2	
Oxidation Abs/.1mm *AS	TM D7414	>25	16.0			
	ГМ D2896		7.5			



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

Laboratory

: PCA0119329 Lab Number : 06225473 Unique Number : 11103670

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 01 Jul 2024 : 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Don Baldridge Test Package : FLEET (Additional Tests: KV40)

68 Shepherd Hill Rd Danielson, CT US 06239 Contact: Shop 1377 Oil Analysis

shop1377@transervice.com

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