

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 698054

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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 INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0121016	PCA0094491	PCA0068588			
Sample Date		Client Info		22 Apr 2024	10 Apr 2023	07 Jun 2022			
Machine Age	mls	Client Info		410599	365854	303756			
Oil Age	mls	Client Info		44745	0	10000			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<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	>100	31	44	38			
Chromium	ppm	ASTM D5185m	>20	1	2	2			
Nickel	ppm	ASTM D5185m	>4	0	<1	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	11	21	19			
Lead	ppm	ASTM D5185m	>40	0	0	<1			
Copper	ppm	ASTM D5185m	>330	7	10	12			
Tin	ppm	ASTM D5185m	>15	<1	<1	1			
Antimony	ppm	ASTM D5185m							
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	2	2	4	7			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	50	64	67	62			
Manganese	ppm	ASTM D5185m	0	<1	1	<1			
Magnesium	ppm	ASTM D5185m	950	897	971	891			
Calcium	ppm	ASTM D5185m	1050	1185	1157	1208			
Phosphorus	ppm	ASTM D5185m	995	1007	1015	960			
Zinc	ppm	ASTM D5185m	1180	1213	1293	1205			
Sulfur	ppm	ASTM D5185m	2600	2807	2929	2454			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	7	6			
Sodium	ppm	ASTM D5185m		6	5	4			
Potassium	ppm	ASTM D5185m	>20	5	13	9			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	1.1	1.7	1.4			
Nitration	Abs/cm	*ASTM D7624	>20	10.3	12.8	13.0			
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	25.0	26.5			
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	22.6	23.0			
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	3.6	4.9			
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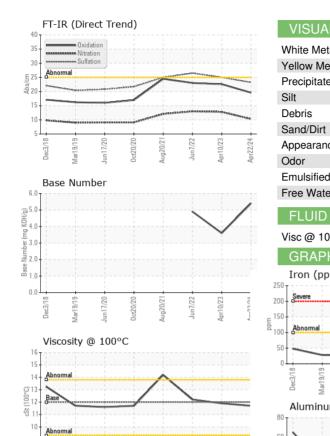
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OIL ANALYSIS REPORT



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	and the local diversion of	Sand/Dirt	scalar	*Visual	NONE	NONE			IONE		
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	Lak Sar Lak Unic Tes s san	Laboratory Sample No. Lab Number Unique Number Test Package	Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Iron (ppm)	Emulsified Water scalar Free Water scalar Free Water scalar FLUID PROPERTIES Visc @ 100°C cSt GRAPHS Iron (ppm)	Emulsified Water scalar 'Visual Free Water scal	Emulsified Water scalar Visual >0.2 Free Water scalar Visual >0.2 Free Water scalar Visual FLUID PROPERTIES method immit/base Visc @ 100°C cst ASTM D445 12.00 GRAPHS Ton (ppm)	Emulsified Water scalar *Visual >0.2 NEG Free Water scalar *Visual >0.2 NEG Free Water scalar *Visual >0.2 NEG Free Water scalar *Visual *Visu	Emulsified Water scalar Visual 50.2 NEG NEG Free Water scalar Visual NEG NEG Free Water scalar Visual NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG Subcravity © 100°C cSt ASTM D445 12.00 11.7 11.9 GRAPHS Ton (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Viscosity © 100°C Copper (ppm) Viscosity © 100°C Copper (ppm) Viscosity © 100°C Sillcon (ppm) Copper (ppm) Viscosity © 100°C Sillcon (ppm) Neg Number Sillcon (ppm) Neg Number Sillcon (ppm) Neg Number Sillcon (ppm) Neg Number Niscosity © 100°C Sillcon (ppm) Neg Number Sillcon (ppm) Niscosity © 100°C Sillcon (ppm) Niscosity © 100°C Sillcon (ppm) Niscosity © 100°C Neg Number Sillcon (ppm) Niscosity © 100°C Sillcon (ppm) Sillcon (pp	Enulsified Water scalar Visual >0.2 NEG NEG Free Water scalar Visual NEG	Emulsified Water scalar 'Visual >0.2 NEG	Emulsified Water scalar Visual >0.2 NEG NEG NEG Free Water scalar Visual >0.2 NEG

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