

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 738610

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

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.

AL)						
•			Mar2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102912	PCA05806107	
Sample Date		Client Info		06 Sep 2023	17 Mar 2023	
Machine Age	mls	Client Info		205699	140534	
Oil Age	mls	Client Info		65165	140534	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	66	80	
Chromium	ppm	ASTM D5185m	>20	3	3	
Nickel	ppm	ASTM D5185m	>4	<1	1	
Titanium	ppm	ASTM D5185m		2	5	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m		14	20	
Lead	ppm	ASTM D5185m	>20 >40	<1	0	
		ASTM D5185m		25	44	
Copper Tin	ppm	ASTM D5185m		25	3	
Vanadium	ppm	ASTM D5185m	>15	2	3 <1	
	ppm			-		
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	12	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	65	53	
Manganese	ppm	ASTM D5185m	0	1	2	
Magnesium	ppm	ASTM D5185m	950	952		
-		AGTIVI DJTOJITI	950	952	846	
Calcium	ppm				846 1447	
	ppm ppm	ASTM D5185m	1050	1376	1447	
Phosphorus	ppm	ASTM D5185m ASTM D5185m	1050 995	1376 1101	1447 989	
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1050 995	1376 1101 1413	1447 989 1288	
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600	1376 1101 1413 2914	1447 989 1288 2830	
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1050 995 1180 2600 limit/base	1376 1101 1413 2914 current	1447 989 1288 2830 history1	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1050 995 1180 2600 limit/base	1376 1101 1413 2914 current 7	1447 989 1288 2830 history1 8	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 limit/base >25	1376 1101 1413 2914 current 7 2	1447 989 1288 2830 history1 8 3	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 limit/base >25 >20	1376 1101 1413 2914 current 7 2 33	1447 989 1288 2830 history1 8 3 45	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 limit/base >25 >20 limit/base	1376 1101 1413 2914 current 7 2 33 current	1447 989 1288 2830 history1 8 3 45 history1	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 limit/base >25 >20 limit/base >3	1376 1101 1413 2914 current 7 2 33 current 1.9	1447 989 1288 2830 history1 8 3 45 history1 1.6	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 limit/base >25 >20 limit/base >3	1376 1101 1413 2914 current 7 2 33 current	1447 989 1288 2830 history1 8 3 45 history1	 history2 history2
Silicon Sodium Potassium	ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600 <i>limit/base</i> >25 >20 <i>limit/base</i> >3 >20	1376 1101 1413 2914 current 7 2 33 current 1.9	1447 989 1288 2830 history1 8 3 45 history1 1.6	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	1050 995 1180 2600 <i>limit/base</i> >25 >20 <i>limit/base</i> >3 >20	1376 1101 1413 2914 current 7 2 33 current 1.9 13.3 26.2	1447 989 1288 2830 history1 8 3 45 history1 1.6 12.3	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	1050 995 1180 2600 imit/base >25 >20 imit/base >3 >20 >30 imit/base	1376 1101 1413 2914 current 7 2 33 current 1.9 13.3 26.2	1447 989 1288 2830 history1 8 3 45 history1 1.6 12.3 24.9	 history2 history2



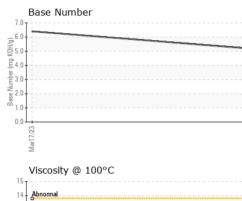
cSt (100°C) Ba

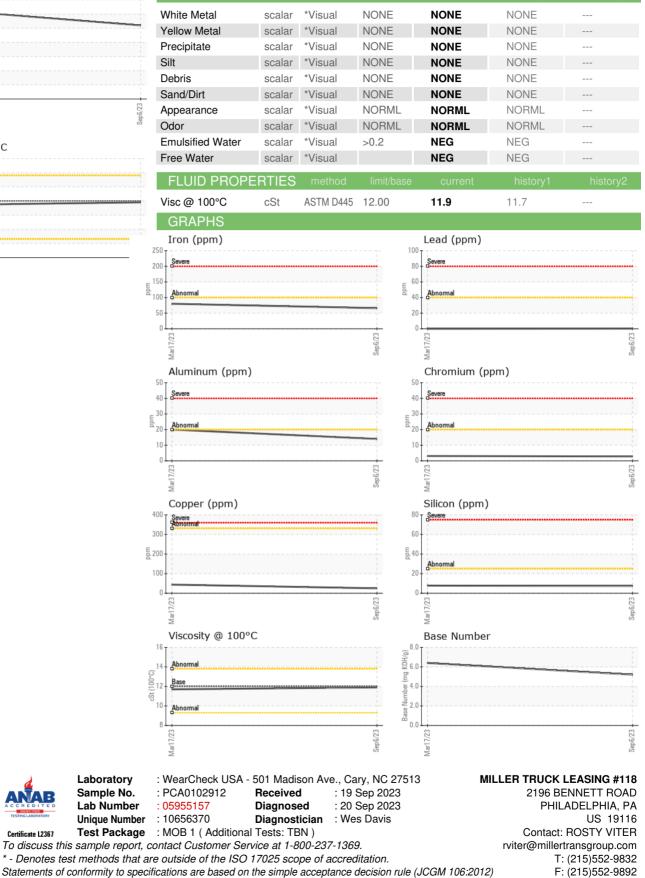
Abnorm

Marl

OIL ANALYSIS REPORT

VISUAL





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