

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area (35748Z) Walgreens Machine Id [Walgreens] 136A62531

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

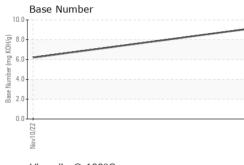
Fluid Condition

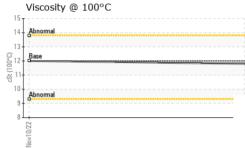
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097091	PCA0082421	
Sample Date		Client Info		27 Jun 2023	10 Nov 2022	
Machine Age	mls	Client Info		224936	151243	
Oil Age	mls	Client Info		73693	67106	
Oil Changed	1115	Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
				NOTIMAL	NOTIMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>2.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	40	39	
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	7	
Lead	ppm	ASTM D5185m	>40	1	2	
Copper	ppm	ASTM D5185m	>330	8	26	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 2	current 27	history 1 5	history 2
	ppm ppm					
Boron		ASTM D5185m	2	27	5	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	27 0	5 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	27 0 58	5 0 63	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	27 0 58 2	5 0 63 2	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	27 0 58 2 758	5 0 63 2 894	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	27 0 58 2 758 1367	5 0 63 2 894 1296	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	27 0 58 2 758 1367 990	5 0 63 2 894 1296 962	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	27 0 58 2 758 1367 990 1245	5 0 63 2 894 1296 962 1283	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	27 0 58 2 758 1367 990 1245 2974	5 0 63 2 894 1296 962 1283 3327	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	27 0 58 2 758 1367 990 1245 2974 current	5 0 63 2 894 1296 962 1283 3327 history 1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	27 0 58 2 758 1367 990 1245 2974 current 8	5 0 63 2 894 1296 962 1283 3327 history 1 9	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	27 0 58 2 758 1367 990 1245 2974 current 8 1	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 -25	27 0 58 2 758 1367 990 1245 2974 current 8 1 10	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 Imit/base >25 >20 Imit/base >3	27 0 58 2 758 1367 990 1245 2974 current 8 1 10 current	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22 kistory 1	 history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 Imit/base >25 >20 Imit/base >3	27 0 58 2 758 1367 990 1245 2974 <i>current</i> 8 1 10 <i>current</i> 0.2	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22 history 1 1.9	 history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 <i>limit/base</i> >25 >20 <i>limit/base</i>	27 0 58 2 758 1367 990 1245 2974 <i>current</i> 8 1 10 <i>current</i> 0.2 6.6	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22 history 1 1.9 1.9	 history 2 history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 0 50 0 950 1050 995 1180 2600 i mit/base >25 20 i mit/base >3 >20 >30	27 0 58 2 758 1367 990 1245 2974 <i>current</i> 8 1 10 <i>current</i> 0.2 6.6 19.1	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22 history 1 1.9 1.9 13.0 28.1	 history 2 history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	2 0 0 50 0 950 1050 995 1180 2600 i mit/base >25 20 i mit/base >3 >20 >30	27 0 58 2 758 1367 990 1245 2974 <i>current</i> 8 1 10 <i>current</i> 0.2 6.6 19.1	5 0 63 2 894 1296 962 1283 3327 history 1 9 <1 22 history 1 1.9 13.0 28.1 history 1	 history 2 history 2 history 2



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EZ/LZUNN EZ/LZUNN 4 3 2 1 1 3 3 2	Non-ferrous Metal	cSt	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445	NONE NONE NONE NONE NORML NORML >0.2 12.00	NONE NONE NONE NONE NORML NORML NEG NEG Current 11.8	NONE NONE NONE NONE NORML NORML NEG NEG 12.0	
CZ / Z / Z / Z / Z / Z / Z / Z / Z / Z /	Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual method	NONE NONE NONE NORML NORML >0.2 Iimit/base 12.00	NONE NONE NONE NORML NORML NEG NEG	NONE NONE NONE NORML NORML NEG NEG history 1	 history 2
EZULZUNI 4 4 3 3 2 4 4 3 3 2 1 1 3 3 2	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual method	NONE NONE NONE NORML NORML >0.2 Iimit/base 12.00	NONE NONE NORML NORML NEG NEG	NONE NONE NORML NORML NEG NEG history 1	 history 2
EZULZUNI 4 4 3 3 2 4 4 3 3 2 1 1 3 3 2	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar scalar scalar scalar RTIES cSt	*Visual *Visual *Visual *Visual *Visual *Visual method	NONE NORML NORML >0.2 limit/base 12.00	NONE NONE NORML NORML NEG NEG	NONE NORML NORML NEG NEG history 1	 history 2
E2/L2Umr 4 3 3 2 E2/L2Umr 1 1 3 3 2 2	Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar scalar scalar RTIES cSt	*Visual *Visual *Visual *Visual *Visual *Visual method	NONE NORML NORML >0.2 limit/base 12.00	NONE NORML NORML NEG NEG	NONE NORML NORML NEG NEG history 1	 history 2
4 1 1 1 1 1 1 1 1 1 1	Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys Ferrous Alloys	scalar scalar scalar scalar scalar cSt	*Visual *Visual *Visual *Visual *Visual method	NONE NORML >0.2 limit/base 12.00	NONE NORML NORML NEG NEG current	NONE NORML NORML NEG NEG history 1	 history 2
EZULZUM EZULZUM 4 3 2 Med 2 1 1 3 3 2	Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar scalar RTIES cSt	*Visual *Visual *Visual *Visual method	NORML NORML >0.2 limit/base 12.00	NORML NORML NEG NEG current	NORML NORML NEG NEG history 1	 history 2
4 3 3 2 5 6 2 1 1 1 3 3 2 2 3 3 2	Odor Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar scalar RTIES cSt	*Visual *Visual *Visual method	NORML >0.2 limit/base 12.00	NORML NEG NEG current	NORML NEG history 1	 history 2
4 3 3 2 5 5 2 1 1 3 3 3 2 2	Emulsified Water Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	scalar scalar RTIES cSt	*Visual *Visual method	>0.2 limit/base 12.00	NEG NEG current	NEG NEG history 1	 history 2
4 3 3 2 5 5 2 1 1 3 3 2 2 3 3 2	Free Water FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys Chromium nickel Non-ferrous Metal	scalar RTIES cSt	*Visual method	limit/base 12.00	NEG current	NEG history 1	history 2
4 3 3 2 <u>6</u> 2 1 1 3 3 2	FLUID PROPE Visc @ 100°C GRAPHS Ferrous Alloys	cSt	method	12.00	current	history 1	history 2
4 3 3 2 <u>E</u> 2 1 1 3 3 2 2	Visc @ 100°C GRAPHS Ferrous Alloys	cSt		12.00			
4 3 3 2 <u>E</u> 2 1 1 3 3 2 2	GRAPHS Ferrous Alloys		ASTM D445		11.8	12.0	
3 3 2 1 1 1 3 3	Ferrous Alloys	ls		Jun27/23			
3 3 2 1 1 1 3 3	Non-ferrous Metal	ls		Jun27/23			
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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