

OIL ANALYSIS REPORT

SHARP BUS LINES Machine Id INTERNATIONAL 1369

Component

Diesel Engine

PETRO CANADA 15W40 (--- GAL)

Sample Rating Trend



CAMPLE INFO

DIAGNOSIS

Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear. The condition of the oil is acceptable for the time in service (see recommendation).

				Aug ² 023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081482	,	,
Sample Date		Client Info		08 Aug 2023		
Machine Age	hrs	Client Info		208919		
Oil Age	hrs	Client Info		6281		
Oil Changed	1110	Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	62		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>4	- <1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	<u>^</u> 22		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium				_		
Caumum	ppm	ASTM D5185(m)		0		
ADDITIVES	ppm	method	limit/base	current	history1	history2
ADDITIVES		method	limit/base	current		
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current 4	history1	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1	history1	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1 75	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1 75 0	history1	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1 75	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1 75 0 926	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992 975	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992 975 1154	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992 975 1154 2472	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992 975 1154 2472 <1 current	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)		current 4 <1 75 0 926 992 975 1154 2472 <1 current 7	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm	method ASTM D5185(m)	limit/base >25	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm	method ASTM D5185(m)	limit/base	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 △ 214 △ 119	history1 history1	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol	ppm	method ASTM D5185(m)	limit/base >25 >20	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214 ▲ 119 0.0	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm	method ASTM D5185(m)	limit/base >25	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 △ 214 △ 119	history1 history1	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7922* method ASTM D7844*	limit/base >25 >20 limit/base >3	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214 ▲ 119 0.0 current 1	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >25 >20 limit/base	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214 ▲ 119 0.0 current	history1 history1 history1	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7922* method ASTM D7844*	limit/base >25 >20 limit/base >3	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214 ▲ 119 0.0 current 1	history1 history1 history1	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7844* ASTM D7844* ASTM D7844*	limit/base >25 >20 limit/base >3 >20	current 4 <1 75 0 926 992 975 1154 2472 <1 current 7 ▲ 214 ▲ 119 0.0 current 1 11.2	history1 history1 history1 history1	history2 history2 history2 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: PC0081482 : 02589898

Received Diagnosed : 5658964

: 19 Oct 2023 Diagnostician : Kevin Marson

: 18 Oct 2023

Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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