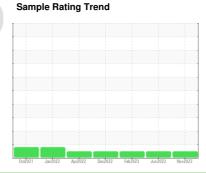


OIL ANALYSIS REPORT

SCHTRUCK 6364 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





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

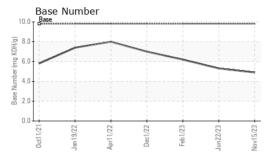
Fluid Condition

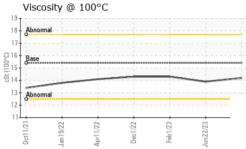
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005874	SBP0000228	SBP0002580
Sample Date		Client Info		15 Nov 2023	22 Jun 2023	01 Feb 2023
Machine Age	mls	Client Info		297266	259960	218802
Oil Age	mls	Client Info		37306	41158	38723
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	18	20	21
Chromium	ppm	ASTM D5185m	>6	2	2	2
Nickel	ppm	ASTM D5185m	>3	1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>50	9	11	11
Lead	ppm	ASTM D5185m	>10	<1	<1	2
Copper	ppm	ASTM D5185m	>50	8	52	12
Tin	ppm	ASTM D5185m	>6	<1	4	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 1	history1	history2 0
	ppm ppm		0			· ·
Boron		ASTM D5185m	0	1	1	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0 0 60	1 0	1	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	1 0 58	1 0 52	0 0 64
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	1 0 58 <1	1 0 52 1	0 0 64 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	1 0 58 <1 929	1 0 52 1 852	0 0 64 <1 979
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	1 0 58 <1 929 1055	1 0 52 1 852 1157	0 0 64 <1 979 1140
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	0 0 60 0 1010 1070 1150	1 0 58 <1 929 1055 1034	1 0 52 1 852 1157 843	0 0 64 <1 979 1140 943
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 ASTM D5185m	0 0 60 0 1010 1070 1150 1270	1 0 58 <1 929 1055 1034 1231	1 0 52 1 852 1157 843 1159	0 0 64 <1 979 1140 943 1314
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 ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	1 0 58 <1 929 1055 1034 1231 2544	1 0 52 1 852 1157 843 1159 2345	0 0 64 <1 979 1140 943 1314 2886
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	1 0 58 <1 929 1055 1034 1231 2544	1 0 52 1 852 1157 843 1159 2345 history1	0 0 64 <1 979 1140 943 1314 2886 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	1 0 58 <1 929 1055 1034 1231 2544 current	1 0 52 1 852 1157 843 1159 2345 history1	0 0 64 <1 979 1140 943 1314 2886 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 Iimit/base	1 0 58 <1 929 1055 1034 1231 2544 current 5	1 0 52 1 852 1157 843 1159 2345 history1 5	0 0 64 <1 979 1140 943 1314 2886 history2 6 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >50	1 0 58 <1 929 1055 1034 1231 2544 current 5 2	1 0 52 1 852 1157 843 1159 2345 history1 5 3	0 0 64 <1 979 1140 943 1314 2886 history2 6 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >50	1 0 58 <1 929 1055 1034 1231 2544 current 5 2 13	1 0 52 1 852 1157 843 1159 2345 history1 5 3 18	0 0 64 <1 979 1140 943 1314 2886 history2 6 3 18
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1150 1270 2060 limit/base >50 limit/base	1 0 58 <1 929 1055 1034 1231 2544 current 5 2 13	1 0 52 1 852 1157 843 1159 2345 history1 5 3 18 history1 0.6	0 0 64 <1 979 1140 943 1314 2886 history2 6 3 18 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >50 >20 limit/base	1 0 58 <1 929 1055 1034 1231 2544 current 5 2 13 current 0.8 9.9	1 0 52 1 852 1157 843 1159 2345 history1 5 3 18 history1 0.6 9.9	0 0 64 <1 979 1140 943 1314 2886 history2 6 3 18 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method *ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0 0 0 1010 1070 1150 1270 2060 limit/base >50 >20 limit/base >3 >20 >30	1 0 58 <1 929 1055 1034 1231 2544 current 5 2 13 current 0.8 9.9 22.9	1 0 52 1 852 1157 843 1159 2345 history1 5 3 18 history1 0.6 9.9 22.6	0 0 64 <1 979 1140 943 1314 2886 history2 6 3 18 history2 0.6 10.4 22.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7844	0 0 0 0 1010 1070 1150 1270 2060 limit/base >50 >20 limit/base >3 >20 >30 limit/base	1 0 58 <1 929 1055 1034 1231 2544 current 5 2 13 current 0.8 9.9 22.9	1 0 52 1 852 1157 843 1159 2345 history1 5 3 18 history1 0.6 9.9 22.6 history1	0 0 64 <1 979 1140 943 1314 2886 history2 6 3 18 history2 0.6 10.4 22.5



OIL ANALYSIS REPORT

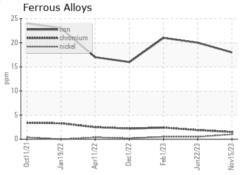


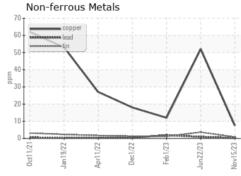


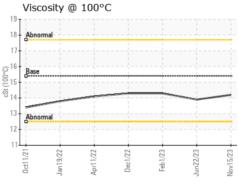
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

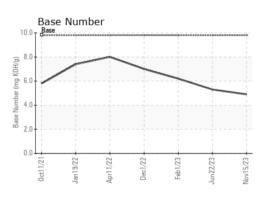
FLUID PROPERTIES		metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: SBP0005874 : 06017089 : 10756233 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Nov 2023 Diagnosed : 28 Nov 2023

Diagnostician : Wes Davis

SCHMIDT TRANSPORTATION - 605449

108 E Bay Road Plattsmouth, NE US 68048 Contact: NICK DOTY

doty@liquidtrucking.com T: (402)949-9398

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