

OIL ANALYSIS REPORT

Sample Rating Trend



Area SCHTRUCK Machine Id 6379 [SCHTRUCK]

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

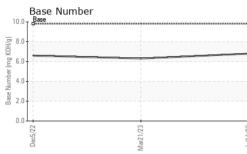
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

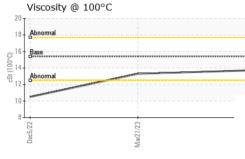
			2022	Mar2023 Jul202		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004732	SBP0004178	SBP0002495
Sample Date		Client Info		11 Jul 2023	21 Mar 2023	05 Dec 2022
Machine Age	mls	Client Info		119035	81522	44930
Oil Age	mls	Client Info		37513	36592	44930
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	22	33	77
Chromium	ppm	ASTM D5185m	>5	1	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	7	14	30
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	51	74	4 18
Tin	ppm	ASTM D5185m	>5	4	4	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
_		LOTH DEVOE	0	<1	8	23
Boron	ppm	ASTM D5185m	0	<1	0	23
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 60	0 68	0 62	0 42
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0	0 68 1	0 62 2	0 42 5
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010	0 68 1 1080	0 62 2 918	0 42 5 479
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070	0 68 1 1080 1260	0 62 2 918 1337	0 42 5 479 1744
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150	0 68 1 1080 1260 1045	0 62 2 918 1337 898	0 42 5 479 1744 706
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	0 60 0 1010 1070 1150 1270	0 68 1 1080 1260 1045 1400	0 62 2 918 1337 898 1201	0 42 5 479 1744 706 879
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	0 60 0 1010 1070 1150 1270 2060	0 68 1 1080 1260 1045 1400 2880	0 62 2 918 1337 898 1201 2542	0 42 5 479 1744 706 879 1875
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 Limit/base	0 68 1 1080 1260 1045 1400 2880 current	0 62 2 918 1337 898 1201 2542 history1	0 42 5 479 1744 706 879 1875 history2
Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >20	0 68 1 1080 1260 1045 1400 2880 current 4	0 62 2 918 1337 898 1201 2542 history1 7	0 42 5 479 1744 706 879 1875 history2 8
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >20	0 68 1 1080 1260 1045 1400 2880 current 4 2	0 62 2 918 1337 898 1201 2542 history1 7 4	0 42 5 479 1744 706 879 1875 history2 8 1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >20	0 68 1 1080 1260 1045 1400 2880 current 4 2 14	0 62 2 918 1337 898 1201 2542 history1 7 4 34	0 42 5 479 1744 706 879 1875 history2 8 1 8 1 86
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 <i>limit/base</i> >20	0 68 1 1080 1260 1045 1400 2880 current 4 2 14 current	0 62 2 918 1337 898 1201 2542 history1 7 4 34 34	0 42 5 479 1744 706 879 1875 history2 8 1 8 1 86 history2
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 ppm	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 <i>limit/base</i> >20 <i>limit/base</i> >20 <i>limit/base</i>	0 68 1 1080 1260 1045 1400 2880 current 4 2 14 2 14 0.7	0 62 2 918 1337 898 1201 2542 history1 7 4 34 34 history1 0.6	0 42 5 479 1744 706 879 1875 history2 8 1 8 1 86 history2 0.7
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 ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 <i>limit/base</i> >20 <i>limit/base</i> >20	0 68 1 1080 1260 1045 1400 2880 <u>current</u> 4 2 14 2 14 0.7 9.9	0 62 2 918 1337 898 1201 2542 history1 7 4 34 34 history1 0.6 10.5	0 42 5 479 1744 706 879 1875 history2 8 1 8 1 86 1 86 1 86 0.7 12.8
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 ASTM D5185m	0 60 1010 1070 1150 1270 2060 <i>limit/base</i> >20 <i>limit/base</i> >3 >20 >30 >30	0 68 1 1080 1260 1045 1400 2880 <u>current</u> 4 2 14 2 14 0.7 9.9 22.0	0 62 2 918 1337 898 1201 2542 history1 7 4 34 34 0.6 10.5 21.9	0 42 5 479 1744 706 879 1875 history2 8 1 8 1 86 1 86 0.7 12.8 25.7



OIL ANALYSIS REPORT

VICLIAI





	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
Jul11/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
lul	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.3	1 0.5
	GRAPHS						
	Ferrous Alloys						
	70 - iron						
	60 - mickel						
	50						
	튭 40						
	30						
	20						
	10-						
	52	/23		123			
	Dec5/22	Mar21/23		Jul11/23			
	Non-ferrous Me	_					
	450 T						
	anneasanne lead						
	350 announces tin						
E	250						
2	200						
		N					
	150						
	100						
		\					
	100 50	21/23		11/23			
	100 50	Mar21/23		Juli 1/23			
	100 50 0 222 39 0 Viscosity @ 100				Base Number		
	100 50 0 0 0 0 0 0 0 0 0 0				Base Number		
	100 50 0 Viscosity @ 100			10.0	Base		
	Viscosity @ 100			10.0	Base		
	Viscosity @ 100			10.0	Base		
	100 50 0 Viscosity @ 100 19 Abnomal 17 6 53 8 8 8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10			10.0	Base		
	100 50 0 100 100 100 100 100 100			0.0 8.0 0(Hd) 6.0 0,0 98 98	Base		
	100 50 0 Viscosity @ 100 19 Abnomal 17 6 53 8 8 8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10			10.0	Base		
	100 50 0 125 13 14 17 18 19 10 10 10 10 10 10 10 10 10 10	0°C		10.0 (0)HOX 0u 0.0 100 000 000 000 000 000 000 000 000 00			
	100 50 0 125 13 14 17 18 19 10 10 10 10 10 10 10 10 10 10	0°C		10.0 (0)HOX 0u 0.0 100 000 000 000 000 000 000 000 000 00			
	100 50 0 100 10 10 10 10 10 10 10 1			10.0 (0)HOX bul Jaquing 888 2.0	Base	Mai21/23	
	100 50 0 125 10 10 10 10 10 10 10 10 10 10	Mar21/23 -	son Ave., Ca	10.0 (0)HOX bul) set (0)HOX bu	Base.	Mar21/23	
pratory ple No.	Viscosity @ 100	- 501 Madia Received	d :14	10.0 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) 6.0 (0HO) 6.0	Base.	EZ/12#W DT TRANSPOR	TATION - 60544 108 E Bay Roa
pratory ple No. Number	100 50 0 100 100 100 100 100 100	- 501 Madia Received Diagnoso	d :14 ed :17	10.0 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) 6.0 (0HO) 6.0	Base.	EZ/12#W DT TRANSPOR	TATION - 60544 108 E Bay Roa Plattsmouth, N
pratory	Viscosity @ 100	- 501 Madia Received	d :14 ed :17	10.0 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) bul 34 (0HO) 6.0 (0HO) 6.0	Base.	EZ/I2#W DT TRANSPOR	TATION - 60544 108 E Bay Roa Plattsmouth, N US 6804 act: NICK DOT

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)

Certificate L2367

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F:

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