

OIL ANALYSIS REPORT

Sample Rating Trend



Area SCHTRUCK Machine Id 6367 [SCHTRUCK] Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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 NumberClient InfoSBP0005396SBP000472SBP0004128IG Mar 2023Sample DateClient Info15 Nov 202318 Jul 202316 Mar 2023Machine AgemisClient Info32431528360247246Oll AgemisClient Info406553640437518Oil ChangedClient InfoNoRMALNORMALNORMALSample StatusIClient InfoKnoreNoRMALCONTAMINATIONWC Method55<1.0<1.0FuelVC Method55<1.0<1.0QicolWC Method55<1.0<1.0VaterWC Method55<1.0<1.0GlycolWC Method55<1.0<1.0ChromiumppmASTM05185>8091417NickelppmASTM05185>33<1<11NickelppmASTM05185>33<1<1<1AuminumppmASTM05185>303<5<5LeadppmASTM05185>300<1<1AduminumppmASTM05185>300<1<1NoreASTM05185>300<1<1<1AduminumppmASTM05185>300<1<1AduminumppmASTM05185>300<1<1AduminumppmASTM05185>300<1<1Aduminumppm<	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
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Soot % % *ASTM D7844 >3 0.7 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 9.2 9.4 9.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.0 21.8 21.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 18.7 18.7	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 00 00 1010 1070 1150 1270 2060	4 0 56 <1 887 1081 1037 1210 2533 current 4	0 0 66 <1 1030 1212 1015 1297 3008 history1 3	5 0 64 <1 1001 1308 1036 1364 3288 history2 6
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Sulfation Abs/.1mm *ASTM D7415 >30 22.0 21.8 21.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 18.7 18.7	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Jimit/base >20	4 0 56 <1 887 1081 1037 1210 2533 current 4 2 5	0 0 66 <1 1030 1212 1015 1297 3008 history1 3 3 3 5	5 0 64 <1 1001 1308 1036 1364 3288 history2 6 3 5
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 18.7 18.7	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Imit/base >20 S	4 0 56 <1 887 1081 1037 1210 2533 current 4 2 5 5 current 0.7	0 0 66 <1 1030 1212 1015 1297 3008 history1 3 3 5 history1 0.7	5 0 64 <1 1001 1308 1036 1364 3288 history2 6 3 5 history2 0.6
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	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 ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 <i>limit/base</i> >20 <i>limit/base</i> >3 >20	4 0 56 <1 887 1081 1037 1210 2533 <i>current</i> 4 2 5 <i>current</i> 0.7 9.2	0 0 66 <1 1030 1212 1015 1297 3008 history1 3 3 3 5 history1 0.7 9.4	5 0 64 <1 1001 1308 1036 1364 3288 history2 6 3 5 history2 0.6 9.8
Base Number (BN) mg KOH/g ASTM D2896 9.8 6.5 6.6 6.9	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 ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >20 imit/base >3 >20 >3 >30	4 0 56 <1 887 1081 1037 1210 2533 current 4 2 5 5 current 0.7 9.2 22.0	0 0 66 <1 1030 1212 1015 1297 3008 history1 3 3 3 5 history1 0.7 9.4 21.8	5 0 64 <1 1001 1308 1036 1364 3288 history2 6 3 5 5 history2 0.6 9.8 21.6
	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 ASTM D7844 *ASTM D7624 *ASTM D7415	0 0 0 1010 1070 1150 1270 2060 2060 2060 200 200 200 200 200 200	4 0 56 <1 887 1081 1037 1210 2533 current 4 2 5 current 0.7 9.2 22.0 current	0 0 66 <1 1030 1212 1015 1297 3008 history1 3 3 3 5 history1 0.7 9.4 21.8 history1	5 0 64 <1 1001 1308 1036 1364 3288 history2 6 3 5 history2 0.6 9.8 21.6 history2



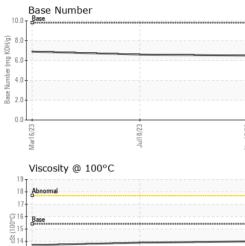
13 Abnormal 12 11

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Mar16/23

OIL ANALYSIS REPORT

VISUAL



	VISUAL		method	iiiiii/base	current	TIISTOLA	riistory2
	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
/23 -	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jul1 8/23 Nov15/23	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
-	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual	20.L	NEG	NEG	NEG
					NEG		
	FLUID PROPERT Visc @ 100°C	ries cSt	method ASTM D445	limit/base	current 14.0	history1 13.9	history2 13.7
	GRAPHS	COL	ASTM D445	15.4	14.0	13.9	13.7
	Ferrous Alloys						
/23	16-						
Jul18/23	14 - nickel						
	12						
	6						
	4						
	2						
	0	~					
	Mar16/23	Jul18/23		Nov15/23			
	—	-		Nov			
	Non-ferrous Metal	s					
	copper						
	10 - exercise lead						
	8						
	E 6						
	d						
	4						
	2 -						
	6/23	Jul18/23		Nov15/23			
	Marl	Jult		Nov1			
	Viscosity @ 100°C				Base Number		
	¹⁹			10.	.0 Base		
	18 - Abnormal				0		
	17			IB/HO			
	Base			у Bu 6.	.0-		
	D 16 Base 15 3 14			nber			
				Base Number (mg KOH/g)	.0		
	13 Abnormal			⁸⁰ 2.	.0 -		
	12						
	33	- 23				/23 -	
	Marl 6/23	Jul18/23		Nov15/23	Mar16/23	Jul18/23	
Laboratory Sample No. Lab Number Unique Number Test Package	: <mark>06017094</mark> : 10756238	501 Madis Received Diagnose Diagnost	d : 24 1 ed : 28 1	ry, NC 2751 Nov 2023 Nov 2023 s Davis	3 SCHMIDT	F	ATION - 6054 08 E Bay Ro Plattsmouth, N US 680 ct: NICK DO

Submitted By: CASEY WILKIE

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