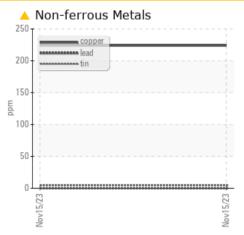


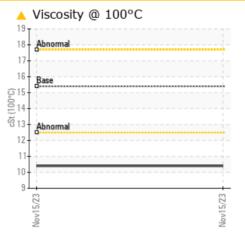
Area SCHTRUCK Machine Id 6501 [SCHTRUCK] Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY





ни deg

WEAR

Alumin	um (ppm	ı)	
45 Severe			1
40			
35-			
30 - Abnormal			-
<u>a</u> 25			
20			
15			
10-			
5			
0 2 2			23
Nov15/23			Nov15/23
No			No

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				ABNORMAL	
Connor	nnm	ACTM DE105m	- 20	A 004	

Sample Rating Trend

Sample Status				ADNORIMAL	 	
Copper	ppm	ASTM D5185m	>30	<u> </u>	 	
Visc @ 100°C	cSt	ASTM D445	15.4	10.4	 	

Customer Id: SCHPLA Sample No.: SBP0005994 Lab Number: 06017092 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area SCHTRUCK Machine Id 6501 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

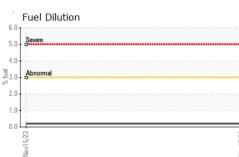
Fluid Condition

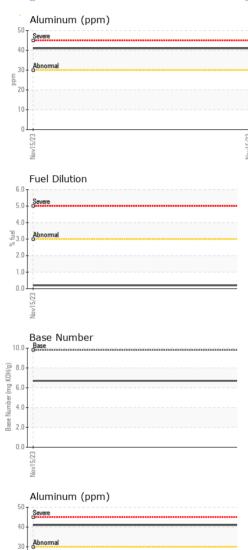
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

AL)				Nov2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005994		
Sample Date		Client Info		15 Nov 2023		
	hrs	Client Info		36052		
Ū	hrs	Client Info		36052		
Dil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	67		
Chromium	ppm	ASTM D5185m	>20	5		
Nickel	ppm	ASTM D5185m	>2	2		
Fitanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>30	41		
_ead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>30	<u> </u>		
Fin	ppm	ASTM D5185m	>15	4		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	22		
Barium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	60	40		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	518		
Calcium	ppm	ASTM D5185m	1070	1603		
Phosphorus	ppm	ASTM D5185m	1150	740		
				743		
	ppm	ASTM D5185m	1270	743 847		
	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	-		
				847		
Sulfur CONTAMINANTS		ASTM D5185m method	2060	847 1723		
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method	2060 limit/base	847 1723 current		 history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m method ASTM D5185m	2060 limit/base	847 1723 current 10	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >30	847 1723 current 10 8	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2060 limit/base >30 >20	847 1723 current 10 8 113	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	2060 limit/base >30 >20 >3.0	847 1723 current 10 8 113 0.2	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	2060 limit/base >30 >20 >3.0 limit/base	847 1723 current 10 8 113 0.2 current	 history1 history1	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Vitration	ppm ppm ppm ppm %	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844	2060 limit/base >30 >20 >3.0 limit/base >3	847 1723 current 10 8 113 0.2 current 0.4	 history1 history1 	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Vitration	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7624	2060 limit/base >30 >20 >3.0 limit/base >3 >20	847 1723 current 10 8 113 0.2 current 0.4 11.8	 history1 history1 	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADAT	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7844 *ASTM D7624	2060 limit/base >30 >20 >3.0 limit/base >3 >20 >30	847 1723 current 10 8 113 0.2 current 0.4 11.8 24.3	 history1 history1 	 history2 history2



OIL ANALYSIS REPORT





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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Nov15/23	Appearance	scalar	*Visual	NORML	NORML		
Nov	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
_	Visc @ 100°C	cSt	ASTM D445	15.4	10.4		
	GRAPHS						
	Ferrous Alloys						
	70 iron						
Nov15/23	60 - chromium						
Nc	50-						
	E ⁴⁰ 30						
	¹ 30						
	20						
	10						
	0						
	Nov15/23			Nov15/23			
	Nov			Nov			
	A Non-ferrous Metal	s					
	250 copper						
	200 - sessesses lead						
	150						
	150						
	100-						
	50-						
	0 L <u>;</u> ************************************						
	Nov15/23			lov15/23			
	Nov			Nov			
	🔥 Viscosity @ 100°C				Base Number		
	19 18 Abnormal			10.0	Base		
	17-			⇒ 8.0			
	16 Base			(B/HO			
	© 15 -			2 6.0)		
	2, 15 00 14 3 13 Abnormal			(B),H03 (0,000) (0,00) (0,000)			
	Abnormal			4.(1		
	11-			ee 2.0)-		
	10-						
				0.0			
	Nov15/23			Nov15/23	Nov15/23		Nov15/23
	ž			Ň	ž		N
boratory	: WearCheck USA - 5	01 Madi		rv NC 2751		T TRANSPORT	ATION - 605440
mple No.		Received		Nov 2023			08 E Bay Road
b Number		Diagnos		Nov 2023			lattsmouth, NE
		•					
que Number	: 10756236 I : FLEET (Additional ⁻	Diagnost		athan Hester			US 68048 ct: NICK DOTY

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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