

## **OIL ANALYSIS REPORT**

### Area SCHTRUCK 6393 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 📥 Wear

The copper level has decreased, but is still abnormal. All other 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.

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			g2023	Dec2023 Apr20		
SAMPLE INFORM	VIATION	method	limit/base		history1	history2
Sample Number		Client Info		SBP0007006	SBP0005965	SBP0004998
Sample Date		Client Info		05 Apr 2024	06 Dec 2023	10 Aug 2023
Machine Age	hrs	Client Info		112100	75414	37752
Dil Age	hrs	Client Info		36686	37662	37752
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
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	33	40	59
Chromium	ppm	ASTM D5185m		3	2	3
Nickel	ppm	ASTM D5185m	>2	1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		11	19	46
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m		<u> </u>	▲ 93	▲ 182
Tin	ppm	ASTM D5185m		2	2	1
Vanadium	ppm	ASTM D5185m		- <1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	3	29
Barium	ppm	ASTM D5185m		0	12	0
Molybdenum	ppm	ASTM D5185m	60	67	61	41
Manganese	ppm	ASTM D5185m	0	2	2	3
Magnesium	ppm	ASTM D5185m	1010	1047	922	607
Calcium	ppm	ASTM D5185m		1214	1183	1754
Phosphorus	ppm	ASTM D5185m	1150	1004	949	751
Zinc	ppm	ASTM D5185m	1270	1313	1169	991
Sulfur	ppm	ASTM D5185m	2060	2454	2199	2451
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	5	5
Sodium	ppm	ASTM D5185m		3	<1	<1
Potassium	ppm	ASTM D5185m	>20	25	54	124
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.6	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.9	22.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	20.3	24.0
Base Number (BN)	mg KOH/g			6.5	6.4	7.0
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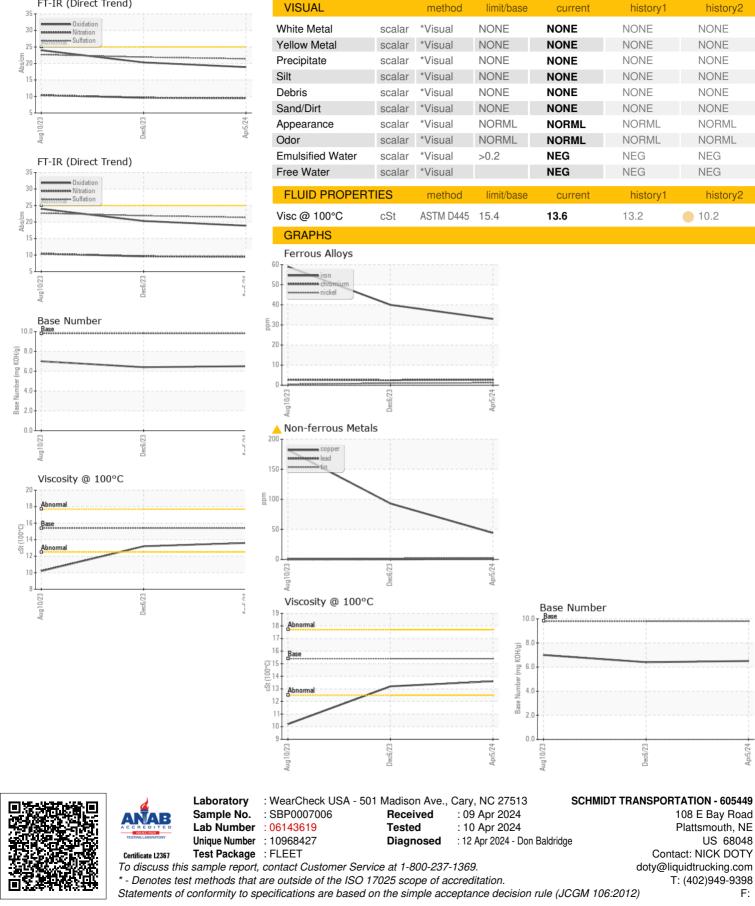
Sample Rating Trend

**WEAR** 



FT-IR (Direct Trend)

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Page 2 of 2