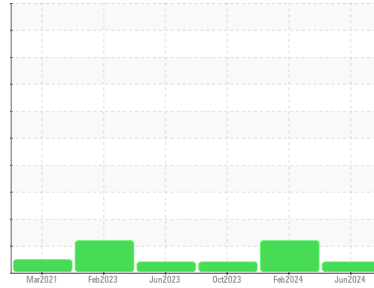




OIL ANALYSIS REPORT

Area
SCHTRUCK
 Machine Id
6253 [SCHTRUCK]
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			SBP0007244	SBP0006661	SBP0005692
Sample Date	Client Info			05 Jun 2024	12 Feb 2024	02 Oct 2023
Machine Age	mls	Client Info		632303	609317	585570
Oil Age	mls	Client Info		22986	23747	22829
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	▲ 2.9	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	13	16	11
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	1	1	<1
Lead	ppm	ASTM D5185m	>30	6	11	5
Copper	ppm	ASTM D5185m	>150	<1	2	<1
Tin	ppm	ASTM D5185m	>5	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	60	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	978	945	933
Calcium	ppm	ASTM D5185m	1070	1120	1069	1020
Phosphorus	ppm	ASTM D5185m	1150	1044	970	983
Zinc	ppm	ASTM D5185m	1270	1242	1197	1214
Sulfur	ppm	ASTM D5185m	2060	3423	3457	2844

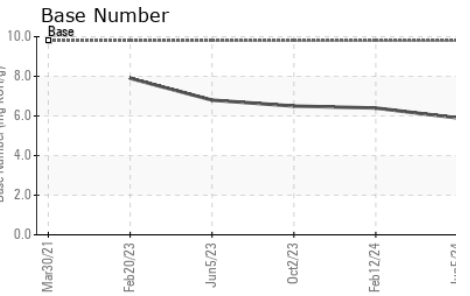
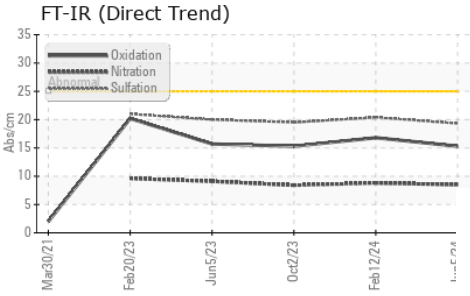
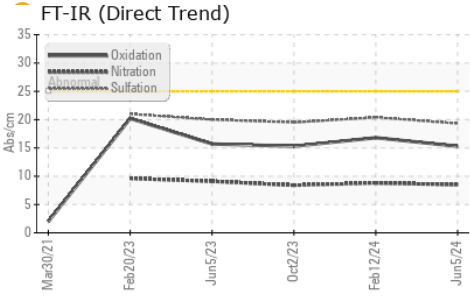
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	4	2
Sodium	ppm	ASTM D5185m		8	4	6
Potassium	ppm	ASTM D5185m	>20	<1	3	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.8	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.4	19.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.8	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.9	6.4	6.5



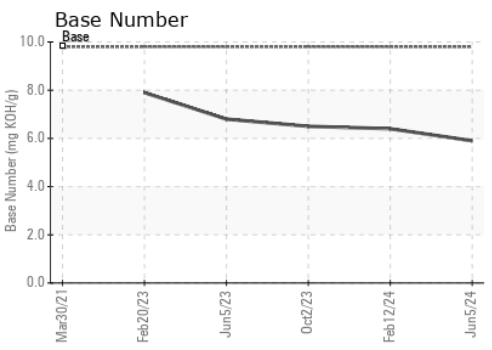
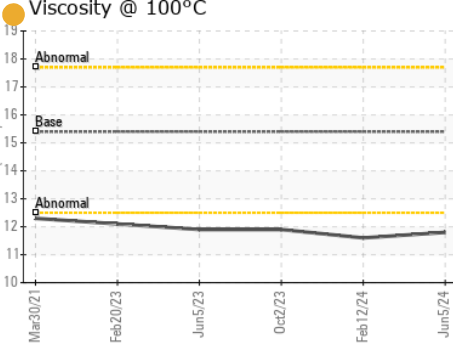
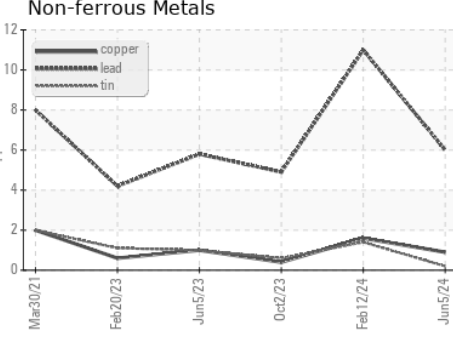
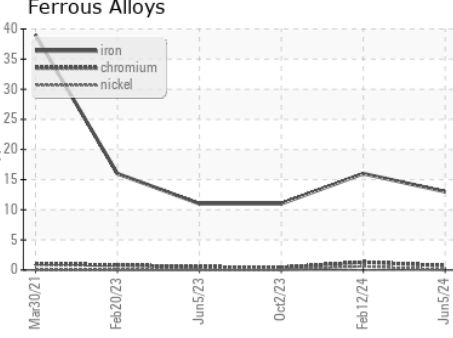
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	● 11.8	▲ 11.6	● 11.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007244 **Received** : 14 Jun 2024
Lab Number : 06211151 **Tested** : 19 Jun 2024
Unique Number : 11084015 **Diagnosed** : 19 Jun 2024 - Sean Felton
Test Package : FLEET

SCHMIDT TRANSPORTATION - 605449
 108 E Bay Road
 Plattsmouth, NE
 US 68048
 Contact: NICK DOTY
 doty@liquidtrucking.com
 T: (402)949-9398
 F:

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)