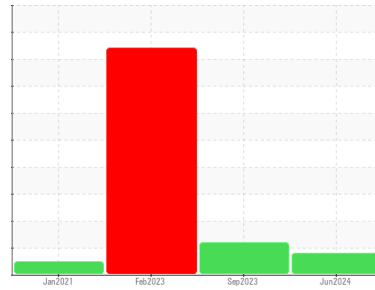




OIL ANALYSIS REPORT

Area
SCHTRUCK
 Machine Id
6341 [SCHTRUCK]
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

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

Wear

Valve wear is indicated.

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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0007706	SBP0005622	SBP0002577
Sample Date	Client Info		21 Jun 2024	14 Sep 2023	07 Feb 2023
Machine Age	mls	Client Info	464540	429907	391432
Oil Age	mls	Client Info	34633	38475	33593
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	0.3	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	▲ 0.10

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	34	27	40
Chromium	ppm	ASTM D5185m >20	1	<1	1
Nickel	ppm	ASTM D5185m >2	▲ 17	▲ 6	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	10	6	24
Lead	ppm	ASTM D5185m >40	<1	0	2
Copper	ppm	ASTM D5185m >330	2	2	6
Tin	ppm	ASTM D5185m >15	0	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	2	20	17
Barium	ppm	ASTM D5185m 0	0	0	<1
Molybdenum	ppm	ASTM D5185m 60	59	18	57
Manganese	ppm	ASTM D5185m 0	1	1	2
Magnesium	ppm	ASTM D5185m 1010	958	383	480
Calcium	ppm	ASTM D5185m 1070	1292	1885	1683
Phosphorus	ppm	ASTM D5185m 1150	1021	897	664
Zinc	ppm	ASTM D5185m 1270	1332	1138	918
Sulfur	ppm	ASTM D5185m 2060	3190	3468	2286

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	10
Sodium	ppm	ASTM D5185m	11	18	▲ 251
Potassium	ppm	ASTM D5185m >20	20	37	▲ 435
Chlorine	ppm	ASTM D5185m	---	---	---

INFRA-RED

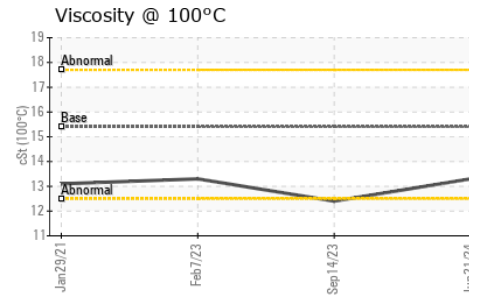
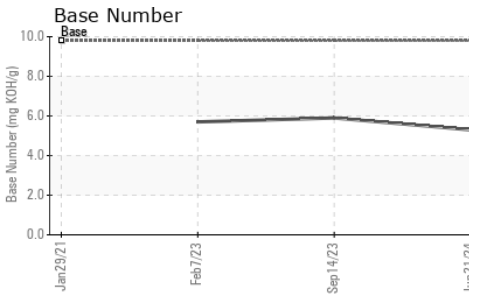
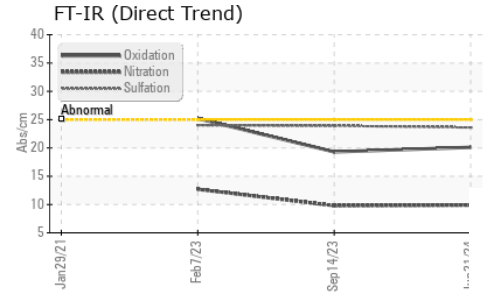
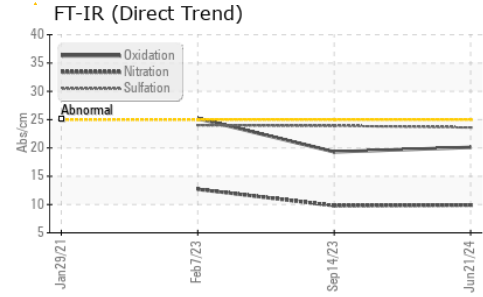
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.6	0.6
Nitration	Abs/cm	*ASTM D7624 >20	9.9	9.8	12.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.6	23.9	24.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.1	19.3	25.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	5.3	5.9	5.7



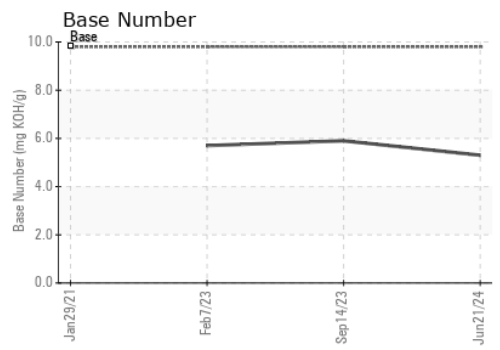
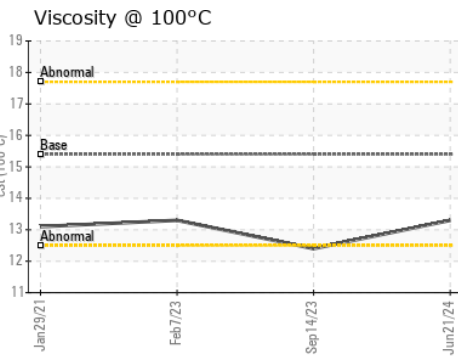
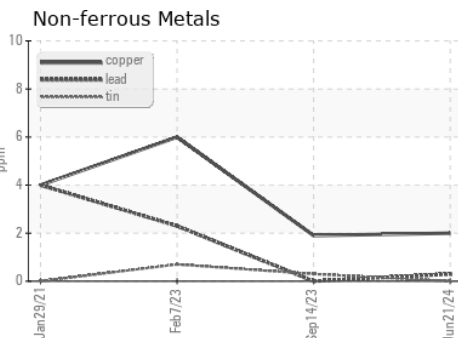
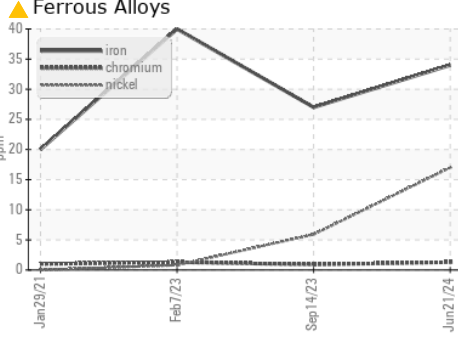
OIL ANALYSIS REPORT



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	13.3	▲ 12.4	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007706 **Received** : 24 Jun 2024
Lab Number : **06219148** **Tested** : 25 Jun 2024
Unique Number : 11097345 **Diagnosed** : 26 Jun 2024 - Jonathan Hester
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)