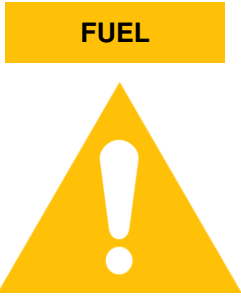
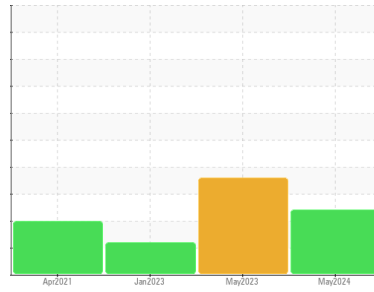




OIL ANALYSIS REPORT

Area
SCHTRUCK
 Machine Id
6332 [SCHTRUCK]
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil 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

Light fuel dilution occurring.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			SBP0006518	SBP0004343	SBP0002527
Sample Date	Client Info			29 May 2024	01 May 2023	31 Jan 2023
Machine Age	mls	Client Info		667792	643720	613612
Oil Age	mls	Client Info		24072	32108	25388
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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	>80	35	37	37
Chromium	ppm	ASTM D5185m	>5	3	1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	1
Lead	ppm	ASTM D5185m	>30	1	21	14
Copper	ppm	ASTM D5185m	>150	4	<1	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	29	1	26
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	49	54	45
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	571	832	491
Calcium	ppm	ASTM D5185m	1070	1506	1037	1427
Phosphorus	ppm	ASTM D5185m	1150	801	834	679
Zinc	ppm	ASTM D5185m	1270	925	1078	862
Sulfur	ppm	ASTM D5185m	2060	2792	2810	2074

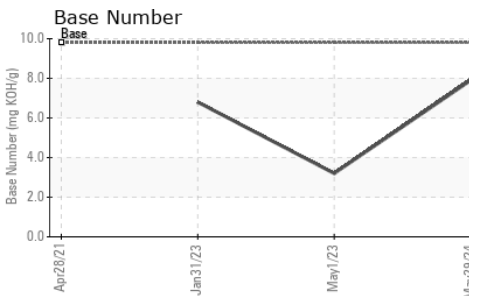
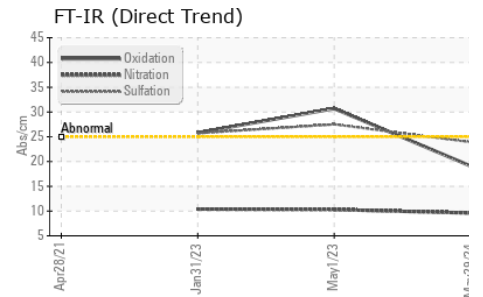
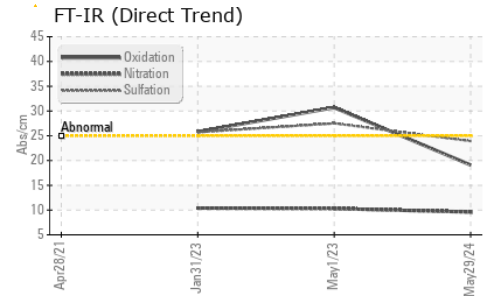
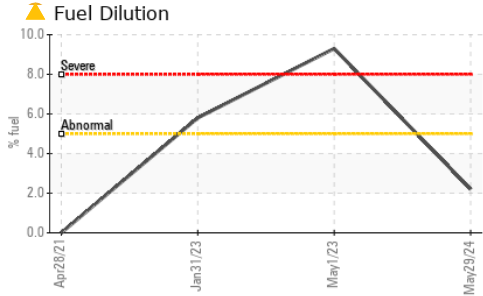
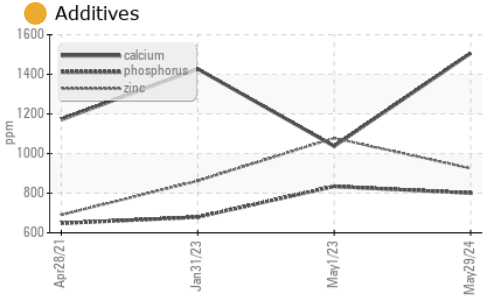
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	5	9
Sodium	ppm	ASTM D5185m		5	10	8
Potassium	ppm	ASTM D5185m	>20	6	5	4
Chlorine	ppm	ASTM D5185m		---	---	---
Fuel	%	ASTM D3524	>5	2.2	9.3	5.8

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.4	1.6	1.6
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.3	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	27.5	25.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	30.7	25.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	3.2	6.8



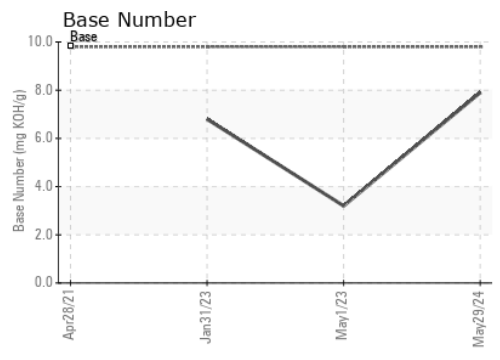
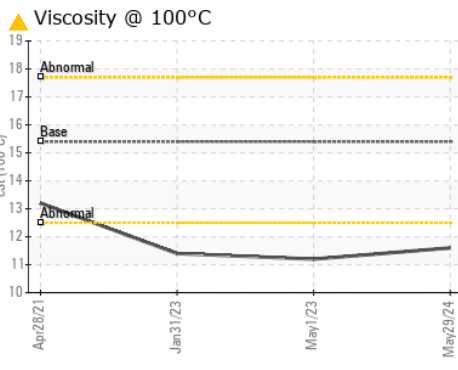
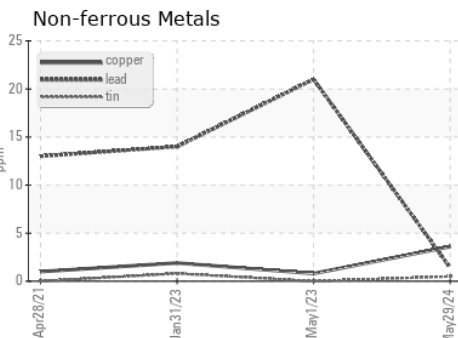
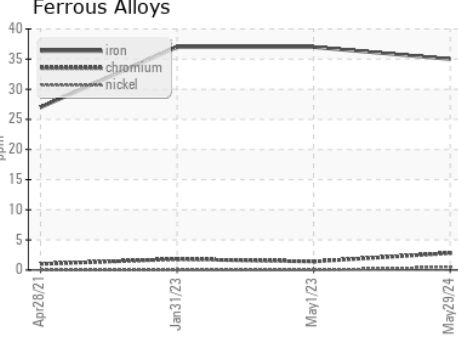
OIL ANALYSIS REPORT



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	▲ 11.6	▲ 11.2	▲ 11.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0006518 **Received** : 17 Jun 2024
Lab Number : 06212889 **Tested** : 20 Jun 2024
Unique Number : 11085753 **Diagnosed** : 20 Jun 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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)