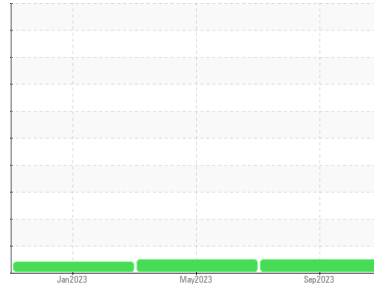




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
SCHTRUCK
 Machine Id
6386 [SCHTRUCK]

Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0005725	SBP0004386	SBP0002538
Sample Date	Client Info		15 Sep 2023	25 May 2023	23 Jan 2023
Machine Age	mls	Client Info	104680	68776	31818
Oil Age	mls	Client Info	35904	36958	31818
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	0.4
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	30	39	74
Chromium	ppm	ASTM D5185m >5	4	3	4
Nickel	ppm	ASTM D5185m >2	0	<1	2
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >30	29	36	42
Lead	ppm	ASTM D5185m >30	0	0	9
Copper	ppm	ASTM D5185m >150	33	65	220
Tin	ppm	ASTM D5185m >5	<1	2	5
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	1	8	32
Barium	ppm	ASTM D5185m 0	0	0	<1
Molybdenum	ppm	ASTM D5185m 60	63	58	45
Manganese	ppm	ASTM D5185m 0	1	2	4
Magnesium	ppm	ASTM D5185m 1010	1037	827	564
Calcium	ppm	ASTM D5185m 1070	1202	1238	1748
Phosphorus	ppm	ASTM D5185m 1150	983	861	749
Zinc	ppm	ASTM D5185m 1270	1306	1120	952
Sulfur	ppm	ASTM D5185m 2060	2602	2243	2080

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	6	10
Sodium	ppm	ASTM D5185m	3	2	8
Potassium	ppm	ASTM D5185m >20	65	74	91

INFRA-RED

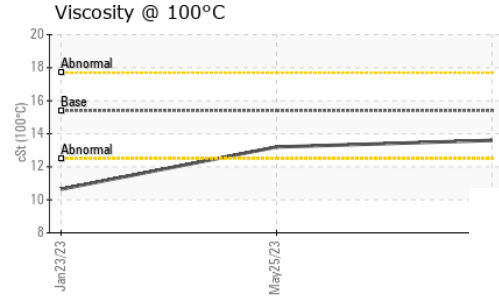
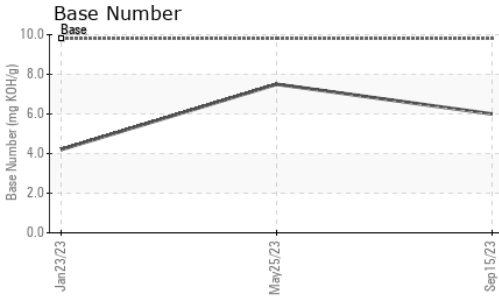
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624 >20	9.8	9.8	10.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	22.3	21.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.5	20.6	22.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	6.0	7.5	4.2



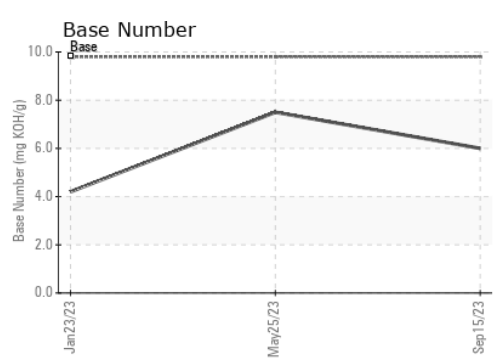
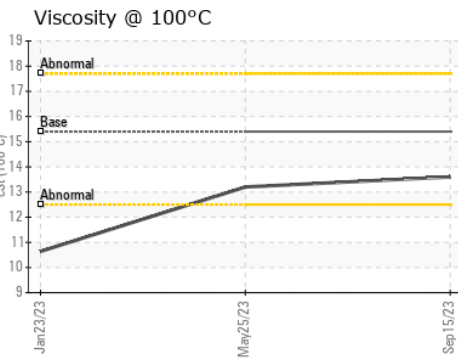
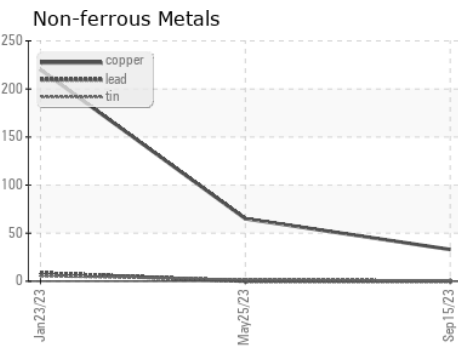
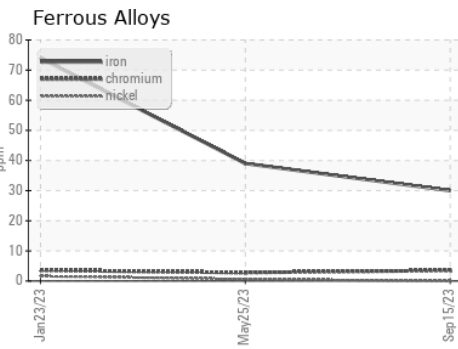
OIL ANALYSIS REPORT



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	13.6	13.2 ▲ 10.64

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005725 **Received** : 22 Sep 2023
Lab Number : 05958988 **Diagnosed** : 25 Sep 2023
Unique Number : 10660201 **Diagnostician** : Wes Davis
Test Package : FLEET

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

Certificate L2367
 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)