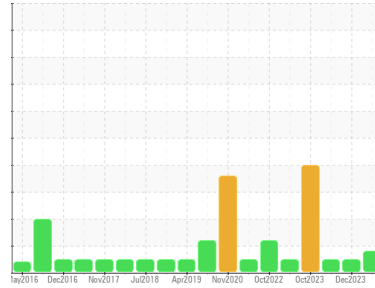


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
VOLVO TRACTOR MANUAL 26360 (S/N EN173859)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (44 QTS)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Valve wear is indicated. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0111474	PCA0108047	PCA0108043
Sample Date	Client Info			30 Jan 2024	06 Dec 2023	13 Nov 2023
Machine Age	mls Client Info			475621	0	490172
Oil Age	mls Client Info			0	0	0
Oil Changed	Client Info			N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<1.0	<1.0	<1.0
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	>100		24	14	13
Chromium	ppm ASTM D5185m	>20		<1	<1	<1
Nickel	ppm ASTM D5185m	>2		▲ 6	2	2
Titanium	ppm ASTM D5185m			0	0	<1
Silver	ppm ASTM D5185m	>2		0	0	<1
Aluminum	ppm ASTM D5185m	>25		9	7	6
Lead	ppm ASTM D5185m	>40		<1	1	<1
Copper	ppm ASTM D5185m	>330		3	2	2
Tin	ppm ASTM D5185m	>15		1	<1	<1
Vanadium	ppm ASTM D5185m			0	<1	<1
Cadmium	ppm ASTM D5185m			0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		<1	2	2
Barium	ppm ASTM D5185m	0		0	0	0
Molybdenum	ppm ASTM D5185m	50		58	61	60
Manganese	ppm ASTM D5185m	0		<1	<1	<1
Magnesium	ppm ASTM D5185m	950		932	1046	922
Calcium	ppm ASTM D5185m	1050		990	1133	1051
Phosphorus	ppm ASTM D5185m	995		1003	1110	999
Zinc	ppm ASTM D5185m	1180		1211	1327	1189
Sulfur	ppm ASTM D5185m	2600		2710	3196	3050

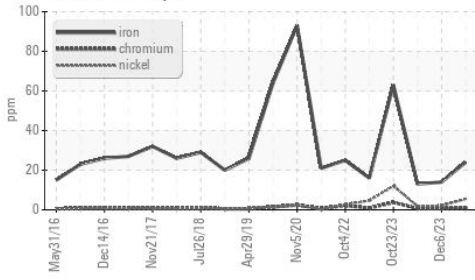
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		8	6	6
Sodium	ppm ASTM D5185m			16	11	8
Potassium	ppm ASTM D5185m	>20		19	15	16

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.3	0.2	0.1
Nitration	Abs/cm *ASTM D7624	>20		9.4	7.3	6.8
Sulfation	Abs/.1mm *ASTM D7415	>30		20.8	19.0	19.2

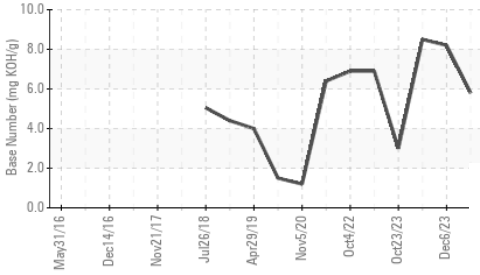
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		18.2	15.6	15.5
Base Number (BN)	mg KOH/g ASTM D2896			5.8	8.2	8.5

OIL ANALYSIS REPORT

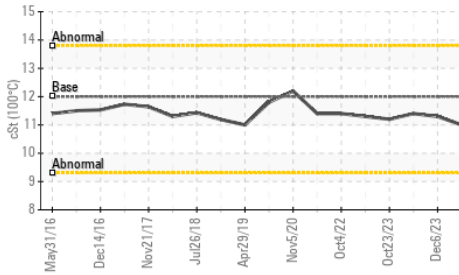
▲ Ferrous Alloys



Base Number



Viscosity @ 100°C

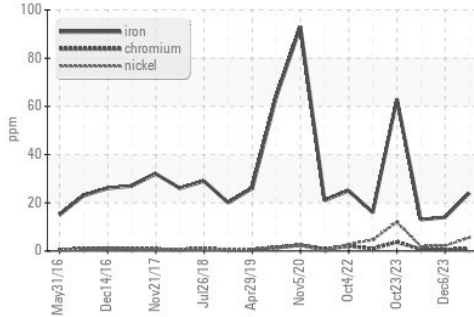


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

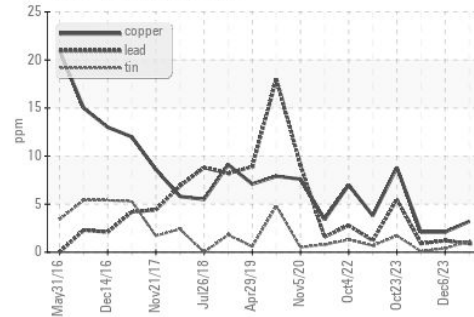
PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.4

GRAPHS

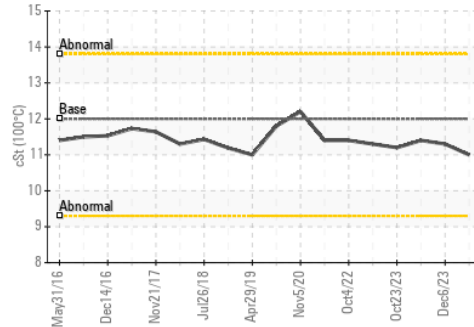
▲ Ferrous Alloys



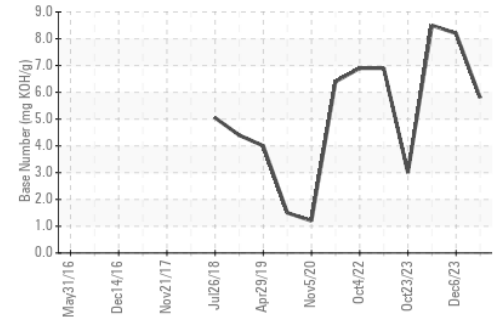
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111474 **Received** : 02 Feb 2024
Lab Number : 06077951 **Tested** : 02 Feb 2024
Unique Number : 10860042 **Diagnosed** : 05 Feb 2024 - Don Baldrige
Test Package : FLEET

PERDUE FARMS - Lewiston
 210 GRIFFINS QUARTER RD
 LEWISTON, NC
 US 27849
 Contact: NELSON WALLACE
 nelson.wallace2@perdue.com

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)

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F: