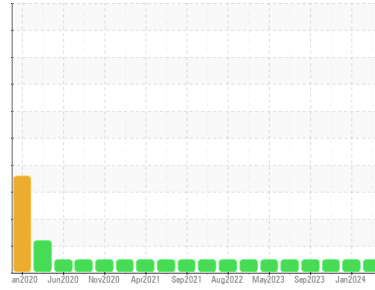


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
FLEET
Machine Id
VOLVO 1926728
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

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 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	PCA0119897	PCA0113708	PCA0108208
Sample Date	Client Info	14 Mar 2024	18 Jan 2024	09 Nov 2023
Machine Age	mls Client Info	436171	417084	395796
Oil Age	mls Client Info	19087	41496	20208
Oil Changed	Client Info	Not Chngd	Changed	Changed
Sample Status		NORMAL	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	17	18	16
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >2	<1	0	<1
Aluminum	ppm ASTM D5185m >25	2	3	2
Lead	ppm ASTM D5185m >40	2	<1	1
Copper	ppm ASTM D5185m >330	5	5	4
Tin	ppm ASTM D5185m >15	1	<1	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	1	0	0
Barium	ppm ASTM D5185m 0	1	0	6
Molybdenum	ppm ASTM D5185m 50	61	58	61
Manganese	ppm ASTM D5185m 0	1	<1	<1
Magnesium	ppm ASTM D5185m 950	931	1059	897
Calcium	ppm ASTM D5185m 1050	1086	1124	1060
Phosphorus	ppm ASTM D5185m 995	1003	1057	1004
Zinc	ppm ASTM D5185m 1180	1210	1249	1180
Sulfur	ppm ASTM D5185m 2600	3006	3073	3334

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	4	5
Sodium	ppm ASTM D5185m	5	6	0
Potassium	ppm ASTM D5185m >20	3	<1	4

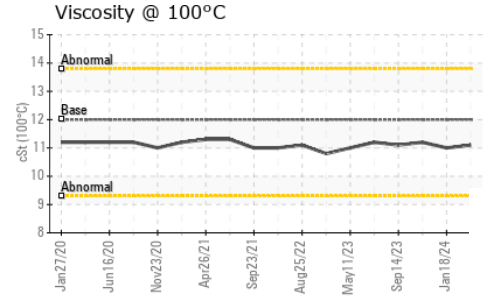
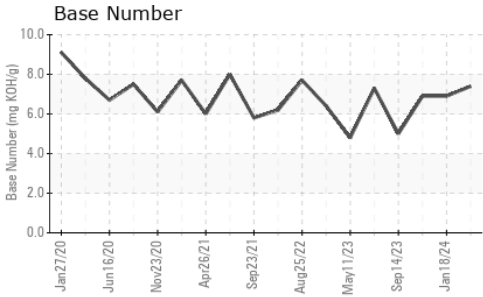
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.3	0.3
Nitration	Abs/cm *ASTM D7624 >20	8.8	9.1	8.9
Sulfation	Abs/.1mm *ASTM D7415 >30	19.2	19.8	20.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.3	17.0	17.0
Base Number (BN)	mg KOH/g ASTM D2896	7.4	6.9	6.9

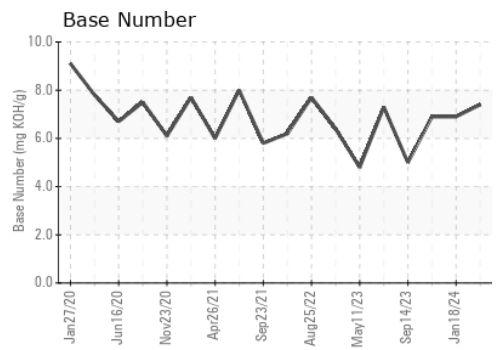
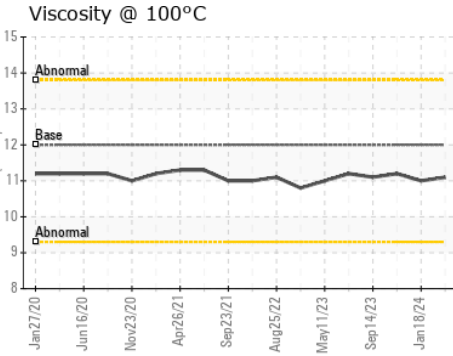
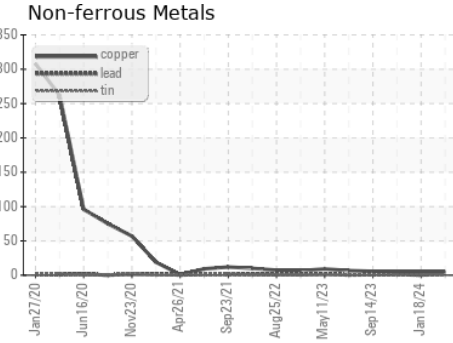
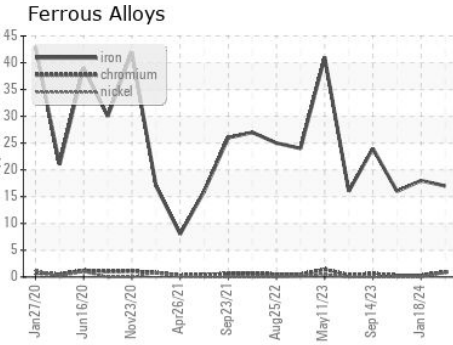
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119897 **Received** : 25 Mar 2024
Lab Number : **06127515** **Tested** : 26 Mar 2024
Unique Number : 10941666 **Diagnosed** : 26 Mar 2024 - Wes Davis
Test Package : FLEET

PERDUE FARMS - ACCOMAC
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 ACCOMAC, VA
 US 23301
 Contact: PEGGY KIMES
 peggy.kimes@perdue.com
 T: (757)787-5304
 F: (757)787-5208

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)