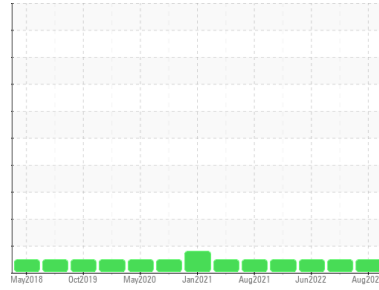




Machine Id
VOLVO VNR 26598
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)



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	PCA0088724	PCA0081605	PCA0071193	
Sample Date	Client Info	10 Aug 2023	14 Mar 2023	18 Jun 2022	
Machine Age	mls	Client Info	295602	278261	0
Oil Age	mls	Client Info	15000	30000	20000
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
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>100	85	104	61
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		2	3	3
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	2
Lead	ppm	ASTM D5185m	>40	1	3	4
Copper	ppm	ASTM D5185m	>330	10	10	8
Tin	ppm	ASTM D5185m	>15	<1	1	1
Antimony	ppm	ASTM D5185m		---	---	---
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	2	0	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	56	56
Manganese	ppm	ASTM D5185m	0	1	2	<1
Magnesium	ppm	ASTM D5185m	950	862	869	828
Calcium	ppm	ASTM D5185m	1050	1079	1133	1093
Phosphorus	ppm	ASTM D5185m	995	933	898	870
Zinc	ppm	ASTM D5185m	1180	1171	1207	1158
Sulfur	ppm	ASTM D5185m	2600	2845	2651	2394

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	7	8	6
Sodium	ppm	ASTM D5185m		12	24	14
Potassium	ppm	ASTM D5185m	>20	2	<1	0

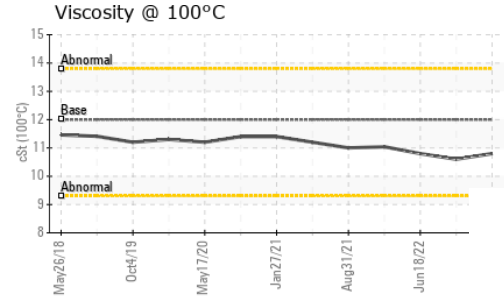
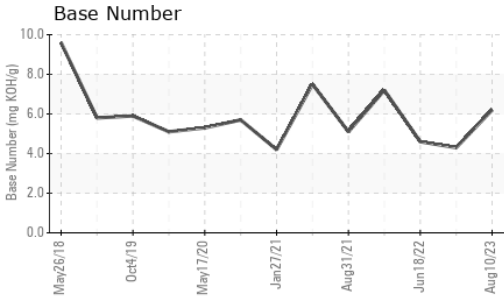
INFRA-RED method limit/base current history1 history2

Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.5	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	24.0	24.4

FLUID DEGRADATION method limit/base current history1 history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	20.5	20.8
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	4.3	4.6

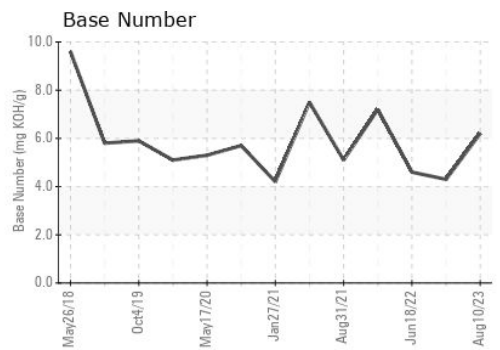
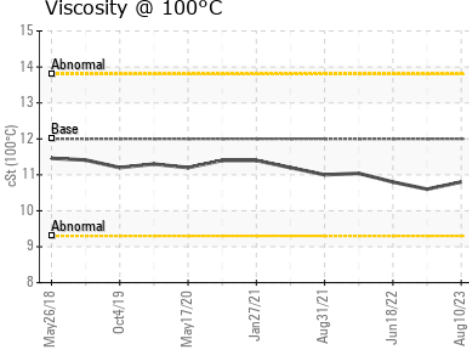
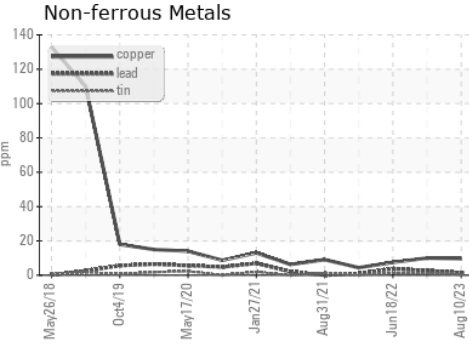
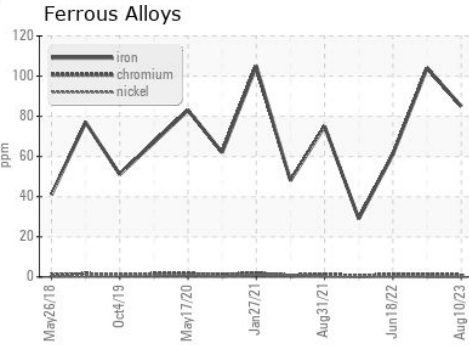
OIL ANALYSIS REPORT



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	12.00	10.8	10.6	10.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0088724 **Received** : 23 Aug 2023
Lab Number : 05932601 **Diagnosed** : 24 Aug 2023
Unique Number : 10617872 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802
 Contact: RICHARD O'NEAL
 richard.oneal@perdue.com
 T: (410)543-3628
 F: (410)341-2164

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)