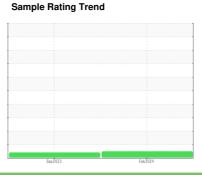


OIL ANALYSIS REPORT

Area FLEET VOLVO 2227053 (S/N 4V4NC9EH3RN631412)

Diesel Engine

PETRO CANADA DURON SHP 10W30 (36 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

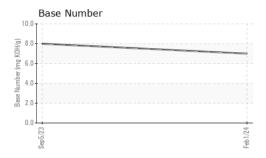
Fluid Condition

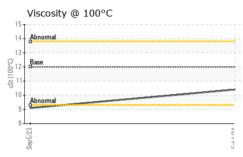
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QIS)			Sep2023	Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113699	PCA0102841	
Sample Date		Client Info		01 Feb 2024	05 Sep 2023	
Machine Age	mls	Client Info		60862	20818	
Oil Age	mls	Client Info		40044	20818	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	0.5	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24	32	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	4	1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	2	15	
Aluminum	ppm	ASTM D5185m	>25	21	38	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	331	246	
Tin	ppm	ASTM D5185m	>15	3	4	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	6	202	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	65	113	
Manganese	ppm	ASTM D5185m	0	2	4	
Magnesium	ppm	ASTM D5185m	950	873	669	
Calcium	ppm	ASTM D5185m	1050	1031	1475	
Phosphorus	ppm	ASTM D5185m	995	898	674	
Zinc	ppm	ASTM D5185m	1180	1116	770	
Sulfur	ppm	ASTM D5185m	2600	2148	2549	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	58	
Sodium	ppm	ASTM D5185m		4	6	
Potassium	ppm	ASTM D5185m	>20	54	96	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	24.4	
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	22.2	
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	8.0	
, ,						



OIL ANALYSIS REPORT

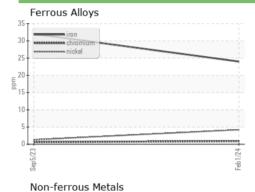


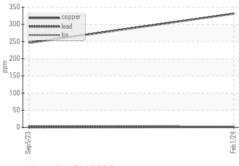


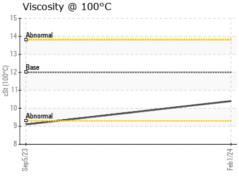
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

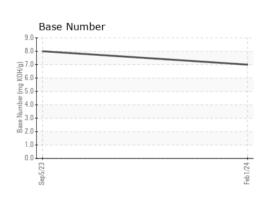
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.4	▲ 9.1	

GRAPHS













Certificate L2367

Laboratory Sample No.

: PCA0113699 Lab Number : 06081944 Unique Number : 10869389 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Feb 2024 : 07 Feb 2024 **Tested**

: 07 Feb 2024 - Wes Davis Diagnosed

22520 LANKFORD HWY ACCOMAC, VA US 23301

PERDUE FARMS - ACCOMAC

Contact: PEGGY KIMES peggy.kimes@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. T: (757)787-5304 F: (757)787-5208

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)