



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO 64
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083442	PC0071023	PC0053922
Sample Date		Client Info		10 Apr 2024	24 Mar 2023	21 Apr 2022
Machine Age	kms	Client Info		478601	1125311	1091778
Oil Age	kms	Client Info		37885	33533	34655
Filter Age	kms	Client Info		37885	33533	34655
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	9	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	11	9	10
Lead	ppm	ASTM D5185(m)	>40	5	2	2
Copper	ppm	ASTM D5185(m)	>330	2	1	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

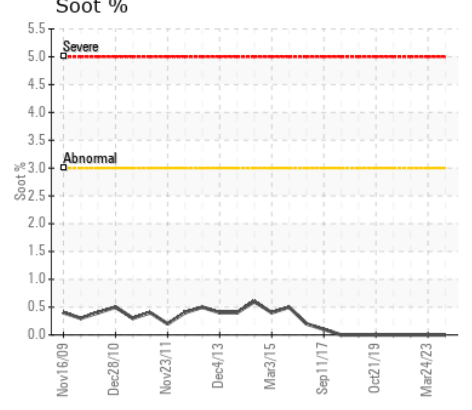
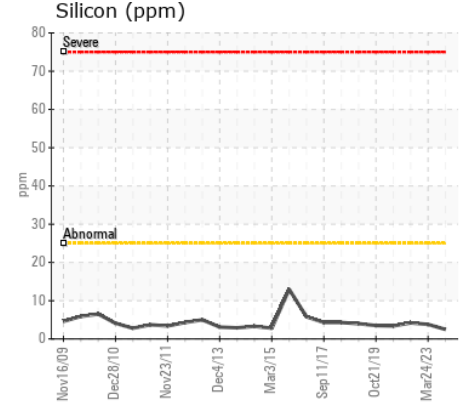
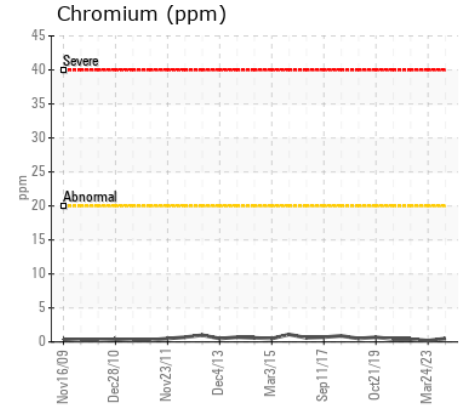
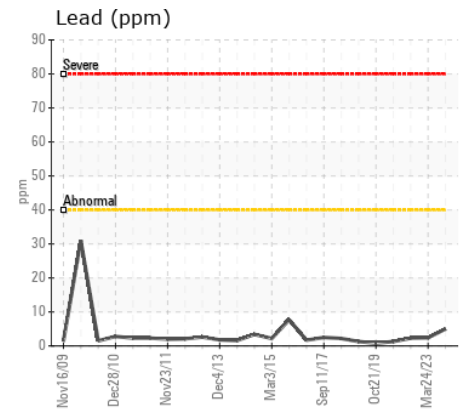
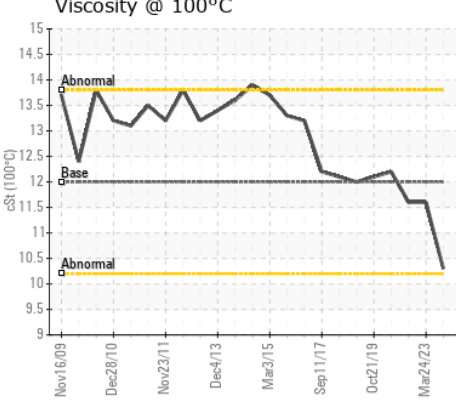
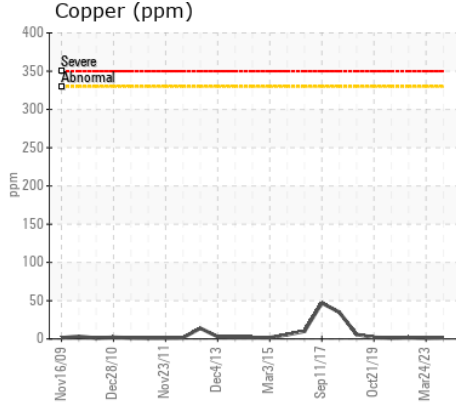
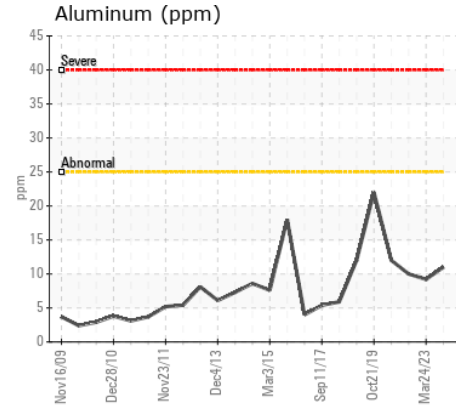
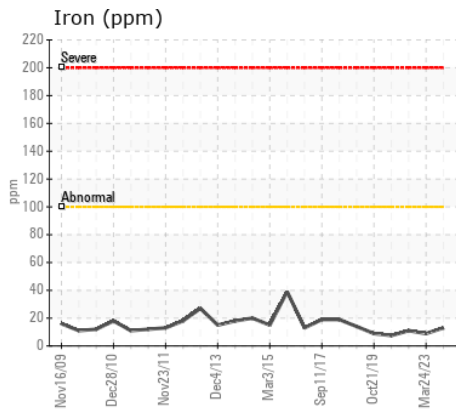
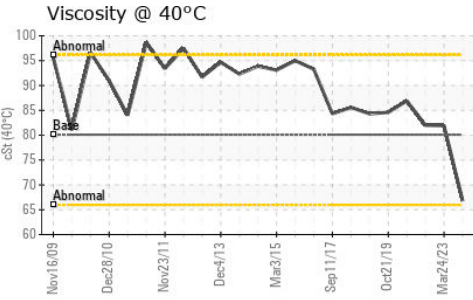
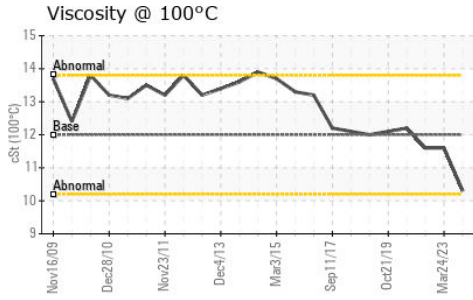
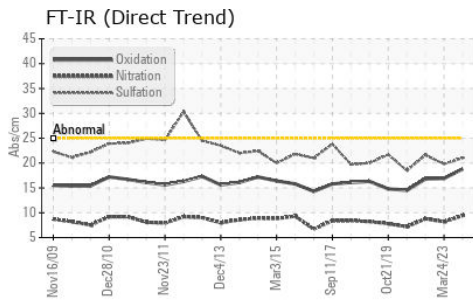
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	33	18	21
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
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.4	8.2	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	19.8	21.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		6	5	5
Boron	ppm	ASTM D5185(m)	2	2	2	3
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	58	58	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	912	944	941
Calcium	ppm	ASTM D5185(m)	1050	1006	1081	1009
Phosphorus	ppm	ASTM D5185(m)	995	842	1064	1027
Zinc	ppm	ASTM D5185(m)	1180	1078	1184	1187
Sulfur	ppm	ASTM D5185(m)	2600	2388	2640	2529
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	16.9	16.8
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	66.8	81.9	82
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.3	11.6	11.6
Viscosity Index (VI)	Scale	ASTM D2270*	144	140	133	133



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083442
Lab Number : 02635482
Unique Number : 5776635
Test Package : MOB 1 (Additional Tests: KV40, VI)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.