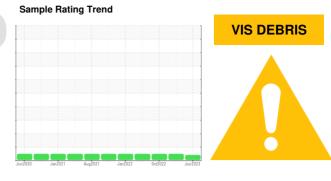


OIL ANALYSIS REPORT



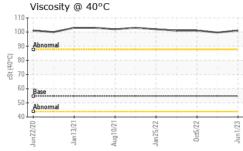
Machine Id VOLVO VNR 26664 (S/N 4V4WC9EH9KN218551) Component Rear Differential

PETRO CANADA TRAXON SYNTHETIC MTF 75W80 (--- GAL)

	SAMPLE INFOR	<u>KMA FION</u>	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0099156	PCA0089377	PCA007938
corrective action is recommended at this time.	Sample Date		Client Info		01 Jun 2023	10 Jan 2023	05 Oct 2022
sample at the next service interval to monitor.	Machine Age	mls	Client Info		349742	322052	308039
ear	Oil Age	mls	Client Info		349742	0	308039
component wear rates are normal.	Oil Changed		Client Info		Not Changd	N/A	N/A
Contamination	Sample Status				-	NORMAL	NORMAL
derate concentration of visible dirt/debris present	CONTAMINA		method	limit/base	current	history1	history
the oil.	Water		WC Method		NEG	NEG	NEG
Jid Condition e condition of the oil is acceptable for the time in	WEAR META	S	method	limit/base	current	history1	history
service.							
	Iron	ppm	ASTM D5185m		147	115	132
	Chromium	ppm	ASTM D5185m		1	1	<1
	Nickel	ppm	ASTM D5185m	>10	11	9	10
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		4	4	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	<1	1
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m	0	379	251	307
	Barium	ppm	ASTM D5185m	0	2	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
	Manganese	ppm	ASTM D5185m		9	7	8
	-						
	Magnesium	ppm	ASTM D5185m	3	1	1	<1
	Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m			1 37	<1 7
	Calcium	ppm	ASTM D5185m	731	9	37	7
	Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	731 628	9 1515	37 1172	7 1334
	Calcium	ppm	ASTM D5185m	731 628 1	9	37	7
	Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	731 628 1	9 1515 21	37 1172 27	7 1334 8 25056
	Calcium Phosphorus Zinc Sulfur CONTAMINA	ppm ppm ppm ppm NTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	731 628 1 2556 limit/base	9 1515 21 25995 current	37 1172 27 18874 history1	7 1334 8 25056 history
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon	ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	731 628 1 2556 limit/base >75	9 1515 21 25995 current 20	37 1172 27 18874 history1 15	7 1334 8 25056 history 18
	Calcium Phosphorus Zinc Sulfur CONTAMINA	ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	731 628 1 2556 limit/base >75	9 1515 21 25995 current	37 1172 27 18874 history1	7 1334 8 25056 history
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium	ppm ppm ppm ppm vTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	731 628 1 2556 limit/base >75	9 1515 21 25995 current 20 6	37 1172 27 18874 history1 15 6	7 1334 8 25056 history 18 6 0
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium	ppm ppm ppm ppm vTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	731 628 1 2556 limit/base >75 >20	9 1515 21 25995 <u>current</u> 20 6 3	37 1172 27 18874 history1 15 6 2	7 1334 8 25056 history 18 6 0
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm VTS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	731 628 1 2556 limit/base >75 >20 limit/base	9 1515 21 25995 current 20 6 3 3	37 1172 27 18874 history1 15 6 2 2 history1	7 1334 8 25056 history 18 6 0 history
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm vTTS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	731 628 1 2556 limit/base >75 >20 limit/base NONE	9 1515 21 25995 current 20 6 3 3 current NONE	37 1172 27 18874 history1 15 6 2 2 history1 NONE	7 1334 8 25056 history 18 6 0 history NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm VTS ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	731 628 1 2556 limit/base >75 >20 limit/base NONE NONE	9 1515 21 25995 current 20 6 3 current NONE NONE	37 1172 27 18874 history1 15 6 2 history1 NONE NONE	7 1334 8 25056 history 18 6 0 history NONE NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm VTS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	731 628 1 2556 imit/base >75 >20 imit/base NONE NONE NONE NONE	9 1515 21 25995 current 20 6 3 20 6 3 current NONE NONE NONE NONE	37 1172 27 18874 history1 15 6 2 2 history1 NONE NONE NONE NONE	7 1334 8 25056 history 18 6 0 history NONE NONE NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm vTS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	731 628 1 2556 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE	9 1515 21 25995 current 20 6 3 3 current NONE NONE NONE NONE NONE NONE	37 1172 27 18874 history1 15 6 2 history1 NONE NONE NONE NONE NONE	7 1334 8 25056 history 18 6 0 history NONE NONE NONE NONE NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm vTTS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	731 628 1 2556 <i>limit/base</i> >75 >20 <i>limit/base</i> NONE NONE NONE NONE NONE NONE	9 1515 21 25995 current 20 6 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	37 1172 27 18874 history1 15 6 2 2 history1 NONE NONE NONE NONE NONE NONE NONE	7 1334 8 25056 history 18 6 0 history NONE NONE NONE NONE NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	731 628 1 2556 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	9 1515 21 25995 current 20 6 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	37 1172 27 18874 history1 15 6 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	7 1334 8 25056 history: 18 6 0 history: NONE NONE NONE NONE NONE NONE NONE
	Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm vTTS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	731 628 1 2556 <i>limit/base</i> >75 >20 <i>limit/base</i> NONE NONE NONE NONE NONE NONE	9 1515 21 25995 current 20 6 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	37 1172 27 18874 history1 15 6 2 2 history1 NONE NONE NONE NONE NONE NONE NONE	7 1334 8 25056 history 18 6 0 history NONE NONE NONE NONE NONE NONE



OIL ANALYSIS REPORT



FLUID PROPER	RTIES me	ethod	limit/base	current	history1	histor
Visc @ 40°C	cSt AST	M D445	54.8	101	99.7	101
SAMPLE IMAGI	ES me	ethod	limit/base	current	history1	histor
Color				no image	no image	no imag
Bottom				no image	no image	no imag
GRAPHS						
Ferrous Alloys						
140 - iron	~	~	1			
120	\sim					
100 <u>E</u> 80						
60 -						
40						
20						
Jun22/20 Jan13/21 Aug10/21	Jan 25/22	0ct5/22	Jun1/23			
ج ج Non-ferrous Metals		-	7			
25 - copper						
20 - enseense lead						
15						
튭 10						
5			/			
3/21	122	5/22	/23			
Jun22/20 Jan 13/21 Aug 10/21	Jan25/22	0ct5/22	Jun1/23			
Viscosity @ 40°C						
100-			-			
90 - Abnormal						
ହି 80 କୁ ở 70						
ଞ ଟି 70						
60 - Base						
50 - Abnormal						
Jan13/21	Jan 25/22	0ct5/22	Jun1/23			



Unique Number : 11020533 Diagnosed : 13 May 2024 - Don Baldridge Test Package : FLEET 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)

US 19933 Contact: GEORGE LACATES

Submitted By: Jeffrey Mitchell Page 2 of 2

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